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Index to FAA Office of Aviation Medicine Reports: 1961 through 1997

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16. Abstract An index to Federal Aviation Administration Office of Aviation Medicine Reports (1964-1997) and Civil Aeromedical Institute Reports is presented for those engaged in aviation medicine and related activities. The index lists all FAA aviation medicine reports published from 1961 through 1997: chronologically (pp. 1-43), alphabetically by author (pp. 45-52), and alphabetically by subject (pp. 53-75). A foreword illustrates historical aspects of the Civil Aeromedical Institute's 35 years of service, describes the index's sections, and explains how to obtain copies of published Office of Aviation Medicine technical reports.					
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Foreword

INDEX TO FAA OFFICE OF AVIATION MEDICINE REPORTS: 1961 THROUGH 1997



Staff members gathered in front of the CAMI Building in October 1997 to commemorate the 35th anniversary of the building's opening (October 21, 1962).

CAMI, THE CIVIL AEROMEDICAL INSTITUTE, is the medical certification, research, education, and occupational health wing of the Federal Aviation Administration's Office of Aviation Medicine (OAM).

Our mission has not changed over the years: Our only purpose is to further *aviation safety*.

At CAMI, we study the factors that influence human performance in the aviation environment, find ways to understand them, and communicate that understanding to the aviation community.

Communicating research findings to the public is achieved in several ways: published reports in professional journals and newsletters,

proceedings reports, and formal technical reports. *OAM Reports* is the major part of the communications effort. Published since 1961, these reports are the distillation of FAA aeromedical research efforts in aviation safety.

We have published 811 reports on a wide range of subjects, from *Angular Acceleration* to *Workload Effects on Complex Performance*.

The *Index* is provided as a reference for those engaged in aviation medicine and related disciplines. We do so because sharing significant findings contributes to the body of aeromedical knowledge through the synergistic effects of others, leading to understanding and the application of appropriate solutions.

Historical Vignette

ORIGIN OF THE JET PASSENGER DROP-OUT OXYGEN SYSTEM AND THE DOUBLE PANE PROTECTIVE DECOMPRESSION WINDOWS

by Stanley R. Mohler, M.D.
and William E. Collins, Ph.D.

JOHN J. SWEARINGEN retired from the Civil Aeromedical Institute (CAMI) as Chief of the Protection and Survival research program in 1971. His many accomplishments in the areas of crash injury protection, human tolerances to abrupt acceleration forces, and proper restraint system design are widely known in the aerospace safety field.

Somewhat less well known is his earlier work (1950s) that anticipated the need in the evolving generation of jet passenger aircraft for passenger drop-out emergency oxygen equipment and his passenger window designs that afforded protection should a window under pressurization forces be lost.

On October 15, 1957, John Swearingen and colleague Ernest B. McFadden patented an "adhesive-type oxygen mask" and an automatic drop-out mechanism, both of these for airline passenger protection in the event of a decompression at altitudes where passenger oxygen is desirable (U.S. Patent 2,809,633). Both Swearingen and McFadden were researchers at the Civil Aeronautics Medical Research Laboratory, a forerunner of the Civil Aeromedical Institute, located at various times in Columbus, Ohio, and Oklahoma City, Oklahoma. The mask and automatic drop-out apparatus were first described in a presentation on April 15, 1956, at the 27th annual meeting of the Aeromedical Association (now the Aerospace Medical Association) held in Chicago. The presentation was published (1) in the February 1957 issue of the *Journal of Aviation Medicine* (now *Aviation, Space, and Environmental Medicine*).

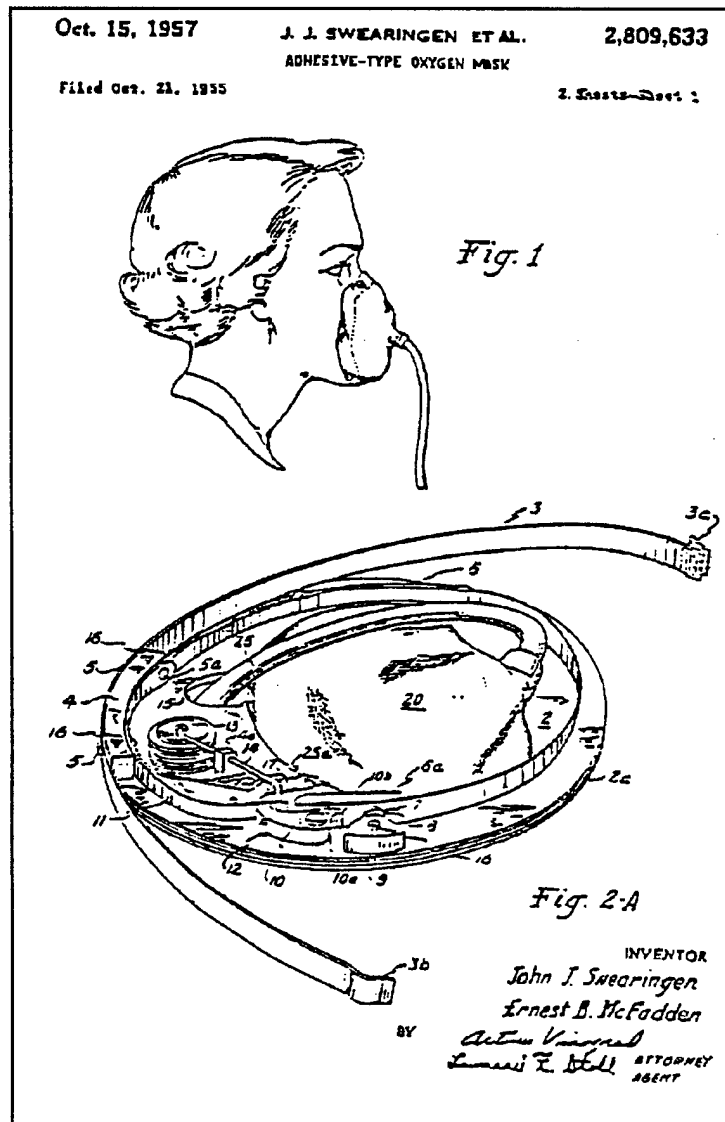


Figure 1. A replica of part of the Swearingen-McFadden original patent. The patent covers the total passenger emergency oxygen system, including the automatic drop-down mechanism triggered by altitude and the associated adhesive oxygen mask. The descriptive emphasis was on improving protection of the passenger, rather than on the release mechanism.

The accomplishments by Swearingen and McFadden in developing the oxygen drop-out mechanism with a proposed new passenger mask were reflected in the equipment carried by the first generation of passenger jets, the Boeing 707, the Douglas DC-8, and the Convair 880. Although the adhesive mask proposed by Swearingen and McFadden provided a superior seal to the passenger masks actually installed in those early flights, industry concern with the shelf life of the then-available adhesive material precluded introduction of the adhesive mask. However, the presentation aspects they developed, with automatic deployment of the mask should the cabin of an airliner exceed a given altitude (12,000 - 14,000 foot range), are in use today.

With respect to high altitude pressurized cabin flight, instances of occupant ejection through a failed window of a pressurized aircraft began to occur with the World War II era. Large pressurized piston engine aircraft retained the large, single pane window design of unpressurized aircraft. As altitudes increased, window failures occurred for one or another reason. The rapid outflow of the air from within would at times bring objects in the airflow path through the window to the outside, including any hapless human who was nearby and unrestrained.

Swearingen began his airflow studies in the 1950s and conducted further studies through the transition of the Civil Aeronautics Medical Research Laboratory to the Civil Aeromedical Research Institute to CAMI. His early work revealed the utility of utilizing double pane windows so that, should the outer pressure-bearing window fail, orifices at the perimeter of the inner window would allow the airflow to escape, leaving the inner window pane intact. This double pane safety concept was introduced in the first generation of jet passenger aircraft. Swearingen worked out a series of profiles that illustrated the safe distance of a passenger from a lost single pane window of various diameters. These profiles are published in the 1963 report, "Studies of Airloads on Man" (2). The report provided data for design engineers of aircraft with respect to specifications for windows that enhance air safety should an airliner decompress during its flight profile.

This historical summary is prepared in recognition of the pioneering work accomplished by personnel of the Civil Aeromedical Institute and its predecessor organizations. Other brief historical summaries regarding the Institute are available elsewhere (3, 4, 5).

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Figure 2. A typical work-setting photo of John Swearingen in CAMI's "high bay" area during 1963. Long-time associate J.D. Garner stands in the background.

HOW TO USE THE INDEX

The Index is organized in three sections:

1. **Chronological Index:** A cumulative list of all research reports from 1961 through 1997.
2. **Author Index:** An index of authors, in alphabetical order.
3. **Subject Index:** An index of subjects, listed in alphabetical order.

Some examples are:

97-9 Nesthus, T.E., Rush, L.L., and Wreggit, S.S: Effects of mild hypoxia on pilot performance at general aviation altitudes. ADA324719

Above: This is an entry from the **Chronological Index** of research reports, shown in cumulative sequence.

Hunter, D.R. 95-27, 96-19, 97-3, 97-6, 97-16, 97-23.

Left: This is an entry from the **Author Index**, which lists all of the research reports prepared by an author or co-author.

Drugs

... aircraft accidents, role of, 68-16, 78-31, 85-8, 92-23,
94-14, 95-28., 96-14, 97-14.
... antihistamine effects, at altitude, 68-15, 78-19, 78-20.
- on shiftwork performance, 97-25.

Left: An example of entries in the **Subject Index**; refers to all reports that pertain to a specific topic.

REPORT NUMBERS

97-2 DeJohn, C.A., Veronneau, S.J.H., and Hordinsky, J.R: Inflight medical care: An update.
ADA322708

Above: The first numbers (97-2) refer to the year and chronological number of the report. This is an abbreviated portion of the official number given each report and is found in the upper left of the report's cover page. The full report number of "97-2" is DOT/FAA/AM-97/2. The "ADA322708" is the number appended to the report by the National Technical Information Service. Keep the number system in mind when ordering.

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Contents

Part I	
Chronological Index-----	1
Part II	
Author Index -----	45
Part III	
Subject Index-----	53

PART I: CHRONOLOGICAL INDEX

FAA Office of Aviation Medicine Reports: 1961 through 1997

1961

- 61-1 Trites, D. K: Problems in air traffic management: I. Longitudinal prediction of effectiveness of air traffic controllers. AD268954

1962

- 62-1 Swearingen, J. J., Wheelwright, C. D., and Garner, J. D: An analysis of sitting areas and pressures of man. AD271138
- 62-2 Cobb, B. B., Jr: Problems in air traffic management: II. Prediction of success in air traffic controller school. N62-10354
- 62-3 Trites, D. K., and Cobb, B. B., Jr: Problems in air traffic management: III. Implications of age for training and job performance of air traffic controllers. N62-10353
- 62-4 Swearingen, J. J., and Mohler, S. R: Sonotropic effects of commercial air transport sound on birds. AD280212
- 62-5 Iampietro, P. F., and Goldman, R: Prediction of energy cost of treadmill work. AD280607
- 62-6 Balke, B: Human tolerances. AD421156
- 62-7 Hasbrook, A. H., and Earley, J. C: Failure of rearward-facing seat backs and resulting injuries in a survivable transport accident. AD421157
- 62-8 Smith, P. W: Toxic hazards in aerial application. AD421158
- 62-9 Hasbrook, A.H., Garner, J. D., and Snow, C. C: Evacuation pattern analysis of a survivable commercial aircraft crash. AD282893
- 62-10 Daugherty, J. W., Lacey, D. E., and Korty, P: Problems in aerial application: I. Some biochemical effects of lindane and dieldrin on vertebrates. AD288413
- 62-11 Hawkes, G. R: Tactile communication. AD288414
- 62-12 Dille, J.R., Newton, N. L., and Culver, J. F: The effects of simulated altitude on penetrating eye injuries. AD288415
- 62-13 Swearingen, J. J., Hasbrook, A. H., Snyder, R. G., and McFadden, E. B: Kinematic behavior of the human body during deceleration. AD283938
- 62-14 Swearingen, J. J: Determination of centers of gravity of man. AD287156
- 62-15 Gogel, W. C: The visual perception of size and distance. AD287197
- 62-16 Hawkes, G. R: Absolute identifications of cutaneous stimuli varying in both intensity level and duration. AD295134
- 62-17 Collins, W. E: Manipulation of arousal and its effects on human vestibular nystagmus induced by caloric irrigation and angular accelerations. AD290348

Part I: Chronological Index

- 62-18 Hinshaw, L. B., Brake, C. M., Iampietro, P. F., and Emerson, T. E., Jr: Effect of increased venous pressure on renal hemodynamics. AD295137
- 62-19 Snyder, R. G: A case of survival of extreme vertical impact in seated position. AD295136
- 62-20 Mohler, S. R: Civil aeromedical research: Responsibilities, aims, and accomplishments. AD295135
- 62-21 McFadden, E. B., Raeke, J. W., and Young, J. W: An improved method for determining the efficiency of crew and passenger oxygen masks. AD297835
- 1963
- 63-1 Emerson, T. E., Jr., Hinshaw, L. B., Brake, C. M., and Iampietro, P. F: The development of reversible hematuria and oliguria following elevation of renal venous pressure. AD299775
- 63-2 Mohler, S. R., and Dille, J. R: Resume and index of reports of the Civil Aeromedical Research Institute, 1961-1962. AD431924
- 63-3 Collins, W. E: Observations on the elicitation of secondary and inverted primary nystagmus from the cat by unilateral caloric irrigation. AD413456
- 63-4 Daugherty, J. W., Lacey, D. E., and Korty, P: Problems in aerial application: II. Effects of chlorinated hydrocarbons on substratelinked phosphorylation. AD418504
- 63-5 Melton, C. E., Jr: Neural control of the ciliary muscle. AD413392
- 63-6 Balke, B: A simple field test for the assessment of physical fitness. AD413393
- 63-7 Tobias, J. V., and Jeffress, L. A: Relation of earphone transient response to measurement of onset-duration. AD413391
- 63-8 McKenzie, J. M., Fowler, P. R., and Lyne, P. J: Calibration of an electronic counter and pulse height analyzer for plotting erythrocyte volume spectra. AD425598
- 63-9 Swearingen, J. J., and McFadden, E. B: Studies of air loads on man. AD602207
- 63-10 Gogel, W. C: The perception of depth from binocular disparity. AD429827
- 63-11 Lategola, M. T: In vivo measurement of total gas pressure in mammalian tissue. AD425537
- 63-12 Nagle, F. J., Balke, B., Ganslen, R. V., and Davis, A. W: The mitigation of physical fatigue with Spartase. AD429001
- 63-13 Collins, W. E: Primary, secondary, and caloric nystagmus of the cat following habituation to rotation. AD428756
- 63-14 Collins, W. E: Nystagmus responses of the cat to rotation and to directionally equivalent and nonequivalent stimuli after unilateral caloric habituation. AD425565
- 63-15 Snyder, R. G: Human survivability of extreme impacts in free-fall. AD425412
- 63-16 Emerson, T. E., Jr., Brake, C. M., and Hinshaw, L. B: Mechanisms of action of the insecticide endrin. AD431299
- 63-17 Tobias, J. V: Application of a "relative" procedure to a problem in binaural beat perception. AD428899

- 63-18 Balke, B: Experimental evaluation of work capacity as related to chronological and physiological aging. AD431301
- 63-19 Wernick, J. S., and Tobias, J. V: A central factor in pure tone auditory fatigue. AD428737
- 63-20 Gogel, W. C: The visual perception of spatial extent. AD432587
- 63-21 Tang, P. C., and Dille, J. R: In-flight loss of consciousness; a case report. AD430394
- 63-22 Hinshaw, L. B., Page, B. B., Brake, C. M., Emerson, T. E., Jr., and Masucci, F. D: The mechanisms of intrarenal hemodynamic changes following acute arterial occlusion. AD431302
- 63-23 Higgins, E. A., Iampietro, P. F., Adams, T., and Holmes, D. D: The effects of a tranquilizer on body temperature. AD432484
- 63-24 Dille, J. R., and Smith, P. W: Central nervous system effects of chronic exposure to organophosphate insecticides. AD434090
- 63-25 Adams, T., Funkhouser, G. E., and Kendall, W. W: A method for the measurement of physiologic evaporative water loss. AD603418
- 63-26 Reins, D. A., Holmes, D. D., and Hinshaw, L. B: Acute and chronic effects of the insecticide endrin on renal function and renal hemodynamics. AD602206
- 63-27 Dille, J. R., Crane, C. R., and Pendergrass, G. E: The flammability of lip, face, and hair preparations in the presence of 100% oxygen. AD602204
- 63-28 Gogel, W. C: Size cues and the adjacency principle. AD602205
- 63-29 Collins, W. E: Task-control of arousal and the effects of repeated unidirectional angular acceleration on human vestibular responses. AD603419
- 63-30 Snyder, R. G., Ice, J., Duncan, J. C., Hyde, A. S., and Leverett, S., Jr: Biomedical research studies in acceleration. AD601531 Supplement—AD801793
- 63-31 Trites, D. K., and Cobb, B. B., Jr: Problems in air traffic management: IV. Comparison of preemployment, job-related experience with aptitude tests as predictors of training and job performance of air traffic control specialists. AD603416
- 63-32 Hinshaw, L. B., Emerson, T. E., Jr., and Brake, C. M: Mechanism of autoregulation in the intact kidney. AD603417
- 63-33 Dill, D. B., Robinson, S. Balke, B., and Newton, J. L: Work tolerance: Age and altitude. AD603932
- 63-34 Ganslen, R. V., Balke, B., Phillips, E. E., and Nagle, F: Effects of some tranquilizing, analeptic, and vasodilating drugs on physical work capacity and orthostatic tolerance. AD603930
- 63-35 Pearson, R. G: Human factors aspects of lightplane safety. AD603931

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1964

- 64-1 Wentz, A. E: Studies on aging in aviation personnel. AD456652
- 64-2 Naughton, J., Balke, B., and Nagle, F: The effect of physical conditioning on an individual before and after suffering a myocardial infarction. AD456653
- 64-3 Nagle, F. J., and Balke, M: The gradational step test for assessing cardiorespiratory capacity: An experimental evaluation of treadmill and step test procedures. AD456654
- 64-4 Spieth, W: Cardiovascular health status, age, and psychological performance. AD453578
- 64-5 Moser, K. M: Current status of clot dissolution therapy. AD453579
- 64-6 Seipel, J. H., and Wentz, A. E: Unsuspected neurologic disease in aviation personnel: Survival following seizures in flight. AD453580
- 64-7 Houk, V. N., Hufnagel, C. A., McClenathan, J. E., and Moser, K. M: Chronic thrombotic obstruction of major pulmonary arteries. AD453581
- 64-8 Moser, K. M., Perry, R. B., and Luchsinger, P. C: Cardiopulmonary consequences of pyrogen-induced hyperpyrexia in man.
- 64-9 Freud, S. L: Duration of spiral aftereffect as a function of retinal size, retinal place, and hemiretinal transfer. AD618588
- 64-10 Freud, S. L: Duration as a measure of the spiral aftereffect. AD618589
- 64-11 Pinkerson, A. L., Kot, P. A., and Knowlan, D. M: Effect of glyceryl trinitrate on pulmonary vasculature of anesthetized dogs.
- 64-12 Scarborough, W. R: Comments on progress in ballistocardiographic research and the current state of the art. AD455651
- 64-13 Gogel, W. C: The size cue to visually perceived distance. AD456655
- 64-14 Capps, M. J., and Collins, W. E: Effects of bilateral caloric habituation on nystagmus responses of the cat. AD455652
- 64-15 Collins, W. E., and Huffman, H. W: Design and performance characteristics of a mechanically driven vestibular stimulator. AD456656
- 64-16 Tobias, J. V., Collins, W. E., and Allen, M. E: Aviation medicine translations: Annotated bibliography of recently translated material. II. AD456670
- 64-17 Freud, S. L: The physiological locus of the spiral aftereffect. AD611881
- 64-18 Melton, C. E., Jr: Physiological recordings from pilots operating an aircraft simulator. AD456671
- 64-19 Perloff, J. K: The recognition of strictly posterior myocardial infarction by conventional scalar electrocardiography. AD611882
- 64-20 FAA Aviation Medical Library: Aviation medical papers and reports: a bibliography. AD613364

1965

- 65-1 Capps, M. J., and Collins, W. E: Auditory fatigue: Influence of mental factors. AD459636
- 65-2 Collins, W. E., and Capps, M. J: Effects of several mental tasks on auditory fatigue. AD459637
- 65-3 Reighard, H. L: Medical services at airports. AD611883
- 65-4 Seipel, J. H., Ziemnowicz, S. A. R., and O'Doherty, D. S: Cranial impedance plethysmography—Rheoencephalography as a method of detection of cerebrovascular disease. AD611884
- 65-5 Hauty, G. T., Trites, D. K., and Berkley, W. J: Biomedical survey of ATC facilities: I. Incidence of self-reported symptoms. AD689806
- 65-6 Hauty, G. T., Trites, D. K., and Berkley, W. J: Biomedical survey of ATC facilities: II. Experience and age. N66-16669
- 65-7 Mohler, S. R., Swearingen, J. J., McFadden, E. B., and Garner, J. D: Human factors of emergency evacuation. AD459638
- 65-8 Van Brummelen, A. G. W., Scarborough, W. R., and Josenhans, W. K. T: On the elimination of pulse wave velocity in stroke volume determination from the ultralow frequency displacement ballistocardiogram. AD612450
- 65-9 Lowenstein, O., Feinberg, R., and Loewenfeld, I: Pupillary movements during acute and chronic fatigue. AD612451
- 65-10 O'Connor, W. F., and Pearson, R. G: ATC system error and appraisal of controller proficiency. N66-16583
- 65-11 Gogel, W. C: The equidistance tendency and its consequences: Problems in depth perception. AD621432
- 65-12 Snyder, R. G: Survival of high-velocity free-falls in water. AD621021
- 65-13 Mohler, S. R: Fatigue in aviation activities. AD620022
- 65-14 Snow, C. C., and Hasbrook, A. H: The angle of shoulder slope in normal males as a factor in shoulder-harness design. AD653920
- 65-15 Scarborough, W. R. (Joint NASA-FAA publication): Ballistocardiography: a bibliography. N65-35520
- 65-16 Hauty, G. T., and Adams, T: Pilot fatigue: Intercontinental jet flight: Oklahoma City-Tokyo. AD621433
- 65-17 Allen, M. E., Collins, W. E., Tobias, J. V., and Crain, R. A: Aviation medicine translations: Annotated bibliography of recently translated material. III. AD617090
- 65-18 Collins, W. E: Adaptation to vestibular disorientation: I. Vertigo and nystagmus following repeated clinical stimulation. AD617091
- 65-19 Cobb, B. B., Jr: Problems in air traffic management: V. Identification and potential of aptitude test measures for selection of tower air traffic controller trainees. AD620722
- 65-20 Swearingen, J. J: Tolerances of the human face to crash impact. AD621434
- 65-21 Trites, D. K: Problems in air traffic management: VI. Interaction of training-entry age with intellectual and personality characteristics of air traffic control specialists. AD620721

Part I: Chronological Index

- 65-22 Trites, D. K., Miller, M. C., and Cobb, B. B., Jr: Problems in air traffic management. VII. Job and training performance of air traffic control specialists—measurement, structure, and prediction. AD649292
- 65-23 Swearingen, J. J., and Young, J. W: Determination of centers of gravity of children, sitting and standing. AD661865
- 65-24 Collins, W. E: Adaptation to vestibular disorientation. II. Nystagmus and vertigo following high-velocity angular accelerations. AD621435
- 65-25 Feinberg, R., and Podolak, E: Latency of pupillary reflex to light stimulation and its relationship to aging. AD689809
- 65-26 Snow, C. C., and Snyder, R. G: Anthropometry of air traffic control trainees. N66-25185
- 65-27 Brake, C. M., Reins, D., Wittmers, L. E., and Hinshaw, L. B. Intrarenal hemodynamic changes following acute partial renal arterial occlusion. AD649263
- 65-28 Hauty, G. T., and Adams, T: Phase shifts of the human circadian system and performance deficit during the periods of transition: I, East-West flight. AD639637
- 65-29 Hauty, G. T., and Adams, T: Phase shifts of the human circadian system and performance deficit during the periods of transition: II. West-East flight. AD689811
- 65-30 Hauty, G. T., and Adams, T: Phase shifts of the human circadian system and performance deficit during the periods of transition: III. North-South flight. AD689812
- 65-31 Pearson, R. G., Hunter, C. E., and Neal, G. L: Development and evaluation of a radar air traffic control research task. AD660198
- 65-32 Gogel, W. C., and Mertens, H. W: Problems in depth perception: A method of simulating objects moving in depth. AD660171
- 1966
- 66-1 Allen, M. E., and Mohler, S. R: Aviation medicine reports: An annotated catalog of Office of Aviation Medicine reports: 1961 through 1965. AD638732
- 66-2 Allen, M. E., and Crain, R. A: Aviation medicine translations: Annotated bibliography of recently translated material. IV. AD651907
- 66-3 Mohler, S. R., and Swearingen, J. J: Cockpit design for impact survival. AD687411
- 66-4 Tobias, J. V: A table of intensity increments. AD642113
- 66-5 Clark, G: Problems in aerial application: A comparison of the effects of dieldrin poisoning in cold-adapted and room-temperature mammals. N66-30197
- 66-6 Fiorica, V: Fatigue and stress studies: An improved semiautomated procedure for fluorometric determination of plasma catecholamines. AD653748
- 66-7 McFadden, E. B: Evaluation of the physiological protective efficiency of a new prototype disposable passenger oxygen mask. AD644118

- 66-8 Mohler, S. R: The predominant causes of crashes and recommended therapy. AD639779
- 66-9 Young, J. W: Selected facial measurements of children for oxygen mask design. AD640062
- 66-10 O'Connor, W. F., and Pendergrass, G. E: Effects of decompression on operator performance. AD675774
- 66-11 Hinshaw, L. B., Reins, D. A., Emerson, T. E., Jr., Rieger, J. A., Jr., Stavinoha, W. B., Fiorica, V., Solomon, L. A., and Holmes, D. D: Problems in aerial application: I.—V. AD660199
- 66-12 Swearingen, J. J: Injury potentials of light-aircraft instrument panels. AD642114
- 66-13 McFadden, E. B., and Simpson, J. M: Flotation characteristics of aircraft-passenger seat cushions. AD642349
- 66-14 Iampietro, P. F., Fiorica, V., Dille, J. R., Higgins, E. A., Funkhouser, G., and Moses, R: Problems in aviation personnel: Influence of a tranquilizer on temperature regulation in man. AD638733
- 66-15 O'Connor, W. F., Scow, J., and Pendergrass, G. E: Hypoxia and performance decrement. AD639780
- 66-16 Lategola, M. T., Harrison, H. F., and Barnard, C: The aeromedical assessment of human systolic and diastolic blood-pressure transients without direct arterial puncture. AD639615
- 66-17 Naughton, J., Shanbour, K., Armstrong, R., McCoy, J., and Lategola, M. T: Problems in aeromedical certification: Cardiovascular responses to exercise following myocardial infarction. AD640970
- 66-18 Swearingen, J. J: Evaluation of head and face injury potential of current airline seats during crash decelerations. AD653869
- 66-19 Pearson, R. G: Performance tasks for operator-skills research. AD642115
- 66-20 McFadden, E. B., and Lategola, M. T: Evaluation of the Sierra hanging quick-don crew pressure-breathing oxygen mask. AD645493
- 66-21 Naughton, J., Lategola, M. T., and Shanbour, K: Clinical aviation medicine: A physical-conditioning program for cardiac patients. AD640969
- 66-22 Gogel, W. C., and Mertens, H. W: Problems in depth perception: Perceived size and distance of familiar objects. AD641477
- 66-23 Iampietro, P. F., and Adams, T: The achievement of thermal balance and its maintenance during environmental stress. AD642350
- 66-24 Agee, F. L., Jr., and Gogel, W. C: Problems in depth perception: Equidistance judgments in the vicinity of a binocular illusion. AD641476
- 66-25 Mohler, S. R., Freud, S. L., Veregge, J. E., and Umberger, E. L: Physician flight accidents. AD648768
- 66-26 Clark, G: Problems in aerial application: Histochemistry of Weil stain on liver. AD652599
- 66-27 Dille, J. R., and Morris, Edward W: Human factors in general aviation accidents. AD640971
- 66-28 Mohler, S. R: Oxygen in general aviation. AD645497
- 66-29 Mohler, S. R: Recent findings on the impairment of airmanship by alcohol. AD644119

Part I: Chronological Index

- 66-30 Mohler, S. R., and Harper, C. R: Protecting the Ag pilot. AD641478
- 66-31 Von Rosenberg, C. W., Keen, F. R., and Mohler, S. R: The "stall barrier" as a new preventive in general aviation accidents. AD642351
- 66-32 Mohler, S. R., and Hasbrook, A. H: In-flight response to a new non-gyroscopic blind flight instrument. AD641479
- 66-33 Young, J. W: Recommendations for shoulder restraint installation in general aviation aircraft. AD646054
- 66-34 Clark, G: Problems in aerial application: A comparison of the acute effects of endrin and carbon tetrachloride on the livers of rats and of the residual effects one month after poisoning. AD645494
- 66-35 Melton, C. E., Jr., and Wicks, S. M: Pilot vision considerations: The effect of age on binocular fusion time. AD645495
- 66-36 Nagle, F. J., Naughton, J., and Balke, B: Clinical aviation medicine research: Comparison of simultaneous measurements of intra-aortic and auscultatory blood pressure with pressure-flow dynamics during rest and exercise. AD645496
- 66-37 Collins, W. E: Adaptation to vestibular disorientation. III. Influence on adaptation of interrupting nystagmic eye movements with opposing stimuli. AD649615
- 66-38 Mertens, H. W: A homogeneous field for light adaptation.
- 66-39 Melton, C. E., Jr., Higgins, E. A., Saldivar, J. T., and Wicks, S. M: Exposure of men to intermittent photic stimulation under simulated IFR conditions. AD646872
- 66-40 Swearingen, J. J: Evaluation of various padding materials for crash protection. AD647048
- 66-41 McKenzie, J. M., and Fiorica, V: Physiological responses of pilots to severe-weather flying. AD646871
- 66-42 Garner, J. D., and Blethrow, J. G: Emergency evacuation tests of a crashed L-1649. AD645423
- 1967**
- 67-1 Cobb, B. B., Jr: The relationships between chronological age, length of experience, and job performance ratings of air route traffic control specialists. AD661468
- 67-2 Mertens, R. A., and Collins, W. E: Adaptation to vestibular disorientation. IV. Responses to angular acceleration and to bilateral caloric stimulation following unilateral caloric habituation. AD653696
- 67-3 McFadden, E. B: Development of techniques for evaluating the physiological protective efficiency of civil aviation oxygen equipment. AD659498
- 67-4 McFadden, E. B., Reynolds, H. I., and Funkhouser, G. E: A protective passenger smoke hood. AD657436
- 67-5 Fowler, P. R., and McKenzie, J. M: Problems in aerial application: Detection of mild poisoning by organophosphorus pesticides using an automated method for cholinesterase activity. AD656211
- 67-6 Collins, W. E., and Guedry, F. E., Jr: Adaptation to vestibular disorientation. V. Eye-movement and subjective turning responses to two durations of angular acceleration. N67-38956
- 67-7 Guedry, F. E., Jr., and Collins, W. E: Adaptation to vestibular disorientation. VI. Eye-movement and subjective turning responses to varied durations of angular acceleration. AD671855

- 67-8 Lewis, M. F., and Ashby, F. K: Diagnostic tests of color-defective vision: Annotated bibliography, 1956-1966. AD660200
- 67-9 McFadden, E. B., Harrison, H. F., and Simpson, J. M: Performance characteristics of constant-flow phase dilution oxygen mask designs for general aviation. AD660201
- 67-10 Rowland, R. C., Jr., and Tobias, J. V: Interaural intensity difference limen. AD661235
- 67-11 Seipel, J. H: The biophysical basis and clinical applications of rheoencephalography. AD673082
- 67-12 Collins, W. E: Adaptation to vestibular disorientation. VII. Special effects of brief periods of visual fixation on nystagmus and sensations of turning. AD659192
- 67-13 Young, J. W: A functional comparison of basic restraint systems. AD660202
- 67-14 Swearingen, J. J: An evaluation of potential decompression hazards in small pressurized aircraft. AD660203
- 67-15 Melton, C. E., Jr., and Wicks, S. M: In-flight physiological monitoring of student pilots. AD665660
- 67-16 Lewis, M. F: Cross-modality matching of loudness to brightness for flashes of varying luminance and duration. AD664463
- 67-17 Funkhouser, G. E., and Billings, S. M: A portable device for the measurement of evaporative water loss. AD664465
- 67-18 Gogel, W. C: Cue-enhancement as a function of task-set. AD664466
- 67-19 Collins, W. E: Adaptation to vestibular disorientation. VIII. "Coriolis" vestibular stimulation and the influence of different visual surrounds. N68-16799
- 67-20 Gogel, W. C., and Mertens, H. W: Perceived depth between familiar objects. AD665293
- 67-21 Crane, C. R., and Sanders, D. C: Evaluation of a biocidal turbine-fuel-additive. AD665661
- 67-22 Mohler, S. R., Bedell, R. H. S., Ross, A., and Veregge, E. J: Aircraft accidents by older persons. AD663688
- 67-23 Veregge, E. J: Type airman certification as related to accidents. AD663688
- 67-24 Lewis, M. F., and Mertens, H. W: Reaction time as a function of flash luminance and duration. AD664464
- 67-25 Siegel, P. V: Aviation medicine, FAA-1966. AD675943
- 1968
- 68-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1967. AD673666
- 68-2 Collins, W. E: Adaptation to vestibular disorientation: IX. Influence of head position on the habituation of vertical nystagmus. AD677460
- 68-3 Podolak, E., Kinn, J. B., and Westura, E. E: Biomedical applications of a commercial capacitance transducer. AD683292
- 68-4 Fiorica, V., Burr, M. J., and Moses, R: Contribution of activity to the circadian rhythm in excretion of magnesium and calcium. AD674416

Part I: Chronological Index

- 68-5 Booze, C. F., Jr: Usage of combined airman certification by active airmen: An active airman population estimate. AD678947
- 68-6 Crosby, W. M., Snyder, R. G., Snow, C. C., and Hanson, P. G: Impact injuries in pregnancy. I. Experimental studies. AD674861
- 68-7 Allen, M. E., and Mertens, R. A: Aviation medicine translations: Annotated bibliography of recently translated material. V. AD673665
- 68-8 Mohler, S. R., Dille, J. R., and Gibbons, H. L: Circadian rhythms and the effects of long-distance flights. AD672898
- 68-9 Siegel, P. V., and Booze, C. F., Jr: A retrospective analysis of aeromedical certification denial actions. January 1961—December 1967. AD675521
- 68-10 Collins, W. E., and Schroeder, D. J: The spiral aftereffect: Influence of stimulus size and viewing distance on the duration of illusory motion. AD673644
- 68-11 Hasbrook, A. H., and Young, P. E: Pilot response to peripheral vision cues during instrument flying tasks. AD684804
- 68-12 Hasbrook, A. H., and Young, P. E: Peripheral vision cues: Their effect on pilot performance during instrument landing approaches and recoveries from unusual attitudes. AD683305
- 68-13 Vaughan, J. A., Higgins, E. A., Funkhouser, G. E., and Galerston, E. M: The effects of body thermal state on manual performance. AD675522
- 68-14 Cobb, B. B., Jr: A comparative study of air traffic trainee aptitude-test measures involving Navy, Marine Corps, and FAA controllers. AD686669
- 68-15 Higgins, E. A., Davis, A. W., Jr., Fiorica, V., Iampietro, P. F., Vaughan, J. A., and Funkhouser, G. E: Effects of two antihistaminecontaining compounds upon performance at three altitudes. AD676502
- 68-16 Dille, J. R., and Mohler, S. R: Drug and toxic hazards in general aviation. AD686670
- 68-17 Thackray, R. I., and Pearson, D. W: The effects of cognitive appraisal of stress on heart rate and task performance. AD687413
- 68-18 Higgins, E. A., Davis, A. W., Jr., Vaughan, J. A., Funkhouser, G. E., and Galerston, E. M: The effects of alcohol at three simulated aircraft cabin conditions. AD686671
- 68-19 Snyder, R. G., and Snow, C. C: Fatal injuries resulting from extreme water impact. AD688424
- 68-20 Lewis, M. F: Two-flash thresholds as a function of flash luminance and area. AD686672
- 68-21 Tobias, J. V: Cockpit noise intensity: Fifteen single-engine light aircraft. AD686425
- 68-22 Hasbrook, A. H: A comparison of effects of peripheral vision cues on pilot performance during instrument flight in dissimilar aircraft simulators. AD688425
- 68-23 Fiorica, V: A table for converting pH to hydrogen ion concentration $[H^+]$ over the range 5-9. AD688120
- 68-24 Snyder, R. G., Snow, C. C., Crosby, W. M., Hanson, P., Fineg, J., and Chandler, R: Impact injury to the pregnant female and fetus in lap belt restraint. AD689359

- 68-25 Tobias, J. V: Cockpit noise intensity: Eleven twin-engine light aircraft. AD688111
- 68-26 Melton, C. E., Jr., Wicks, M., Saldivar, J. T., Morgan, J., and Vance, F. P: Physiological studies on air tanker pilots flying forest fire retardant missions. AD690090
- 68-27 Lewis, M. F., and Mertens, H. W: Assessment of the Broca-Sulzer phenomenon via inter- and intra-modality matching procedures: Studies of signal-light brightness. AD689358
- 68-28 Collins, W. E: Adaptation to vestibular disorientation. X. Modification of vestibular nystagmus and "vertigo" by means of visual stimulation. AD691405
- 1969
- 69-1 Melton, C. E., Jr., and Wicks, M: Binocular fusion time in sleep-deprived subjects. AD688426
- 69-2 Siegel, P. V., and Mohler, S. R: Medical factors in U.S. general aviation accidents. AD689740
- 69-3 Snyder, R. G., Snow, C. C., Young, J. W., Crosby, W. M., and Price, G. T: Pathology of trauma attributed to restraint systems in crash impacts. AD690415
- 69-4 Snyder, R. G., Young, J. W., and Snow, C. C: Experimental impact protection with advanced restraint systems: Preliminary primate tests with air bag and inertia reel/inverted-Y yoke torso harness. AD695416
- 69-5 Snyder, R. G., Crosby, W. M., Snow, C. C., Young, J. W., and Hanson, P. G: Seat belt injuries in impact. AD698298
- 69-6 Chiles, W. D., Bruni, C. B., and Lewis, R. A: Methodology in the assessment of complex human performance: The effects of signal rate on monitoring a dynamic process. AD697943
- 69-7 Pearson, D. W., and Thackray, R. I: Consistency of performance change and autonomic response as a function of expressed attitude toward a specific stress situation. AD697944
- 69-8 Thackray, R. I: Patterns of physiological activity accompanying performance on a perceptual-motor task. AD697945
- 69-9 Chiles, W. D., Gibbons, H. L., and Smith, P. W: Effects of two common medications on complex performance. AD703631
- 69-10 Iampietro, P. F., Chiles, W. D., Higgins, E. A., Gibbons, H. L., Jennings, A. E., and Vaughan, J. A: Complex performance during exposure to high temperatures. AD703632
- 69-11 Booze, C. F., Jr: Occupations of active airmen. AD704474
- 69-12 Melton, C. E., Jr., Hoffmann, S. M., and Delafield, R. H: The use of a tranquilizer (chlordiazepoxide) in flight training. AD703221
- 69-13 Snyder, R. G., Snow, C. C., Young, J. W., Price, G. T., and Hanson, P. G: Experimental comparison of trauma in lateral (+Gy), rearwardfacing (+Gx), and forward-facing (-Gx) body orientations when restrained by lap belt only. AD707185
- 69-14 Chiles, W. D., and Jennings, A. E: Effects of alcohol on complex performance. AD703633
- 69-15 Williams, M. J., and Collins, W. E: The spiral aftereffect. II. Some influences of visual angle and retinal speed on the duration and intensity of illusory motion. AD703634

Part I: Chronological Index

- 69-16 Chiles, W. D., Bruni, C. B., and Lewis, R. A: Methodology in the assessment of complex performance: The effects of signal rate on monitoring a static process. AD703635
- 69-17 Siegel, P. V., Gerathewohl, S. J., and Mohler, S. R: Time-zone effects on the long-distance air traveler. AD702443
- 69-18 Siegel, P. V., Mohler, S. R., and Cierebiej, A: The safety significance of aircraft accident post mortem findings. AD704473
- 69-19 Pearson, D. W., Clark, G., and Moore, C. M: A comparison of the behavioral effects of various levels of chronic disulfoton poisoning. AD704470
- 69-20 Collins, W. E., and Updegraff, B. P: Adaptation to vestibular disorientation. XI. The influence of specific and nonspecific gravireceptors on nystagmic responses to angular acceleration. AD704471
- 69-21 Thackray, R. I., and Touchstone, R. M: Recovery of motor performance following startle. AD704472
- 69-22 Swearingen, J. J., Badgley, J. M., Braden, G. E., and Wallace, T. F: Determination of centers of gravity of infants. AD708514
- 69-23 Brecher, M. H., and Brecher, G. A: Motor effects from visually induced disorientation in man. AD708425
- 69-24 Gerathewohl, S. J: Fidelity of simulation and transfer of training: A review of the problem. AD706744

1970

- 70-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1969. AD714027
- 70-2 Brecher, M. H., and Brecher, G. A: Quantitative evaluation of optically induced disorientation. AD709329
- 70-3 Ryan, L. C., Endecott, B. R., Hanneman, G. D., and Smith, P. W: Effects of an organophosphorus pesticide on reproduction in the rat. AD709327
- 70-4 Crane, C. R., Sanders, D. C., and Abbott, J. K: Studies on the storage stability of human blood cholinesterases: I. AD714028
- 70-5 Higgins, E. A., Vaughan, J. A., and Funkhouser, G. E: Blood alcohol concentrations as affected by combinations of alcoholic beverage dosages and altitudes. AD709328
- 70-6 Tobias, J. V: Auditory processing for speech intelligibility improvement. AD717394
- 70-7 Hasbrook, A. H., and Rasmussen, P. G: Pilot heart rate during in-flight simulated instrument approaches in a general aviation aircraft. AD711268
- 70-8 Fiorica, V., Higgins, E. A., Lategola, M. T., Davis, A. W., Jr., and Iampietro, P. F: Physiological responses of men during sleep deprivation. AD713590
- 70-9 Gerathewohl, S. J., Morris, Everett W., and Sirkis, J. A: Anti-collision lights for the supersonic transport (SST). AD713488
- 70-10 Collins, W. E., Schroeder, D. J., Rice, N., Mertens, R. A., and Kranz, G: Some characteristics of optokinetic eye-movement patterns: A comparative study. AD715440
- 70-11 Revzin, A. M: Some acute and chronic effects of endrin on the brain. AD715452

- 70-12 Mohler, S. R: Physiologically tolerable decompression profiles for supersonic transport type certification. AD713055
- 70-13 Crane, C. R., Sanders, D. C., and Abbott, J. K: A comparison of three serum cholinesterase methods. AD715439
- 70-14 Karson, S., and O'Dell, J. W: Performance ratings and personality factors in radar controllers. AD715247
- 70-15 Lewis, M. F., and Mertens. H. W: Two-flash thresholds as a function of comparison stimulus duration. AD716645
- 70-16 Snow, C. C., Carroll, J. J., and Allgood, M. A: Survival in emergency escape from passenger aircraft. AD735388
- 70-17 Collins, W. E: Effective approaches to disorientation familiarization for aviation personnel. AD719003
- 70-18 Lategola, M. T., Fiorica, V., Booze, C. F., Jr., and Folk, E. D: Comparison of status variables among accident and nonaccident airmen from the active airman population. AD722148
- 70-19 Garner, J. D., and Blethrow, J. G: Evacuation tests from an SST mockup. AD720627
- 70-20 McFadden, E. B., and Smith, R. C: Protective smoke hood studies. AD727021
- 70-21 Lategola, M. T., and Harrison, H. F: A device and method for rapid indirect measurement of human systolic and diastolic blood pressures. AD722032
- 70-22 Iampietro, P. F: Tolerances to thermal extremes in aerospace activities. AD722001

1971

- 71-1 Tobias, J. V: Noise audiometry. AD723464
- 71-2 Melton, C. E., Jr., McKenzie, J. M., Polis, B. D., Funkhouser, G. E., and Iampietro, P. F: Physiological responses in air traffic control personnel: O'Hare Tower. AD723465
- 71-3 Swearingen, J. J: General aviation structures directly responsible for trauma in crash decelerations. AD728728
- 71-4 Iampietro, P. F: Use of skin temperature to predict tolerance to thermal environments. AD723466
- 71-5 Mertens, R. A., Goulden, D. R., Lacy, C. D., and Jones, K. N: Aviation medicine translations: Annotated bibliography of recently translated material. VI. AD723467
- 71-6 Schroeder, D. J: Alcohol and disorientation-related responses. I. Nystagmus and "vertigo" during caloric and optokinetic stimulation. AD728314
- 71-7 Thackray, R. I., and Jones, K. N: Effects of conflicting auditory stimuli on color-word interference and arousal. AD727018
- 71-8 Lategola, M. T: Biodynamic evaluation of air traffic control students between 1960-1963. AD726254
- 71-9 Cierebiej, A., Mohler, S. R., and Stedman, V. G: Physician pilot- in-command flight accidents, 1964 through 1970. AD724286
- 71-10 Gerathewohl, S. J., Mohler, S. R., and Siegel, P. V: Medical and psychological aspects of mass air transportation. AD726286

Part I: Chronological Index

- 71-11 Fiorica, V., Burr, M. J., and Moses, R: Effects of low-grade hypoxia on performance in a vigilance situation. AD727019
- 71-12 Swearingen, J. J: Acceptance tests of various upper torso restraints. AD726253
- 71-13 Swearingen, J. J: Tolerances of the human brain to concussion. AD726287
- 71-14 Smith, R. C: Assessment of a "stress" response-set in the Composite Mood Adjective Check List. AD727020
- 71-15 Fiorica, V., and Moses, R: Automated differential fluorometric analysis of norepinephrine and epinephrine in blood plasma and urine. AD729535
- 71-16 Schroeder, D. J: Alcohol and disorientation-related responses. II. Nystagmus and "vertigo" during angular acceleration. AD730629
- 71-17 Chiles, W. D., Iampietro, P. F., Higgins, E. A., Vaughan, J. A., West, G., and Funkhouser, G. E: Combined effects of altitude and high temperature on complex performance. AD729536
- 71-18 Gibbons, H. L., and Fromhagen, C: Aeromedical transportation and general aviation. AD728315
- 71-19 Lategola, M. T: Changes in cardiovascular health parameters over an eight-year interval in an ATC population segment. AD729537
- 71-20 Collins, W. E., Gilson, R. D., Schroeder, D. J., and Guedry, F. E., Jr: Alcohol and disorientation-related responses. III. Effects of alcohol ingestion on tracking performance during angular acceleration. AD728843
- 71-21 Smith, R. C., Melton, C. E., Jr., and McKenzie, J. M: Affect adjective check list assessment of mood variations in air traffic controllers. AD729832
- 71-22 Brecher, M. H., and Brecher, G. A: Effect of a moving optical environment on the subjective median. AD728316
- 71-23 Melton, C. E., Jr., and Fiorica, V: Physiological responses of low-time private pilots to cross-country flying. AD728317
- 71-24 Hasbrook, A. H., and Rasmussen, P. G: Aural glide slope cues: Their effect on pilot performance during in-flight simulated ILS instrument approaches, AD731848
- 71-25 Norwood, G. K: The philosophy and limitations of FAA aeromedical standards, policies, and procedures. AD729538
- 71-26 Friedberg, W., and Nelson, J. M: Calibration of the Concorde radiation detection instrument and measurements at SST altitude. AD732789
- 71-27 Lewis, M. F., and Steen, J. A: Color-defective vision and the recognition of aviation color signal light flashes. AD729539
- 71-28 Chiles, W. D., and Smith, R. C: A nonverbal technique for the assessment of general intellectual ability in selection of aviation personnel. AD728844
- 71-29 Thackray, R. I., Touchstone, R. M., and Jones, K. N: The effects of simulated sonic booms on tracking performance and autonomic response. AD729833
- 71-30 Smith, R. C., Cobb, B. B., Jr., and Collins, W. E: Attitudes and motivational factors in terminal area air traffic control work. AD730630

- 71-31 Mehling, K. D., Collins, W. E., and Schroeder, D. J: The spiral aftereffect: III. Some effects of perceived size, retinal size, and retinal speed on the duration of illusory motion. AD729834
- 71-32 Steen, J. A., and Lewis, M. F: Color defective vision and day and night recognition of aviation color signal light flashes. AD730631
- 71-33 Mohler, S. R., and Gerathewohl, S. J: Civil aeromedical standards for general-use aerospace transportation vehicles. AD728318
- 71-34 Gilson, R. D., Schroeder, D. J., Collins, W. E., and Guedry, F. E., Jr: Alcohol and disorientation-related responses. IV. Effects of different alcohol dosages and display illumination on tracking performance during vestibular stimulation. AD729835
- 71-35 Smith, R. C: Personality assessment in aviation: An analysis of the item ambiguity characteristics of the 16PF and MMPI. AD736266
- 71-36 Cobb, B. B., Jr., Lay, C. D., and Bourdet, N. M: The relationship between chronological age and aptitude test measures of advanced-level air traffic control trainees. AD733830
- 71-37 McFadden, E. B., and Young, J. W: Evaluation of an improved flotation device for infants and small children. AD729836
- 71-38 Norwood, G. K: Senior aviation medical examiners conducting FAA first-class medical examinations. AD731849
- 71-39 Hill, R. J., Collins, W. E., and Schroeder, D. J: Alcohol and disorientation-related responses: V. The influence of alcohol on positional, rotatory, and coriolis vestibular responses over 32-hour periods. AD735389
- 71-40 Cobb, B. B., Jr: Air traffic aptitude test measures of military and FAA controller trainees. AD737871
- 71-41 Higgins, E. A., Fiorica, V., Davis, H. V., and Thomas, A. A: The acute toxicity of brief exposure of HF, HCl, and NO₂ and HCN singly and in combination with CO. AD735160
- 71-42 Mertens, H. W., and Lewis, M. F: Discrimination of short-duration (two-pulse) flashes as a function of signal luminance and method of measurement. AD737872
- 1972
- 72-1 Dille, J. R., and Grimm, M. H: Index to FAA Office of Aviation Medicine Reports: 1961 through 1971. AD742607
- 72-2 Yanowitch, R. E., Mohler, S. R., and Nichols, E. A: The psycho-social reconstruction inventory: A postdictal instrument in aircraft accident investigation. AD738464
- 72-3 Sirkis, J. A: The benefits of the use of shoulder harness in general aviation aircraft. AD739943
- 72-4 Billings, C. E., Wick, R. L., Jr., Gerke, R. J., and Chase, R. C: The effects of alcohol on pilot performance during instrument flight. AD740778
- 72-5 Chiles, W. D., Jennings, A. E., and West, G: Multiple-task performance as a predictor of the potential of air traffic controller trainees. AD741736
- 72-6 Lowrey, D. L., Langston, E. D., Reed, W., and Swearingen, J. J: Effectiveness of restraint equipment in enclosed areas. AD739944

Part I: Chronological Index

- 72-7 Langston, E. D., and Swearingen, J. J: Evaluation of a fiberglass instrument glare shield for protection against head injury. AD740732
- 72-8 Zeiner, A. R., and Brecher, G. A: Effects of backscatter of brief high-intensity light on physiological responses of instrument-rated pilots and non-pilots. AD744234
- 72-9 Rasmussen, P. G., and Hasbrook, A. H: Pilot tracking performance during successive in-flight simulated instrument approaches. AD743392
- 72-10 McFadden, E. B: Physiological evaluation of a modified jet transport passenger oxygen mask. AD743422
- 72-11 Chiles, W. D., and Jennings, A. E: Effects of alcohol on a problem-solving task. AD743423
- 72-12 Crane, C. R., Sanders, D. C., and Abbott, J. K: A comparison of serum cholinesterase methods: II. AD744866
- 72-13 Booze, C. F., Jr: Attrition from active airman status during 1970. AD742608
- 72-14 Thackray, R. I., Jones, K. N., and Touchstone, R. M: The color- word interference test and its relation to performance impairment under auditory distraction. AD743424
- 72-15 Swearingen, J. J., Wallace, T. F., Blethrow, J. G., and Rowlan, D. E: Crash survival analysis of 16 agricultural aircraft accidents. AD745257
- 72-16 Jones, K. N., Goulden, D. R., and Grimm, E. J: Aviation medicine translations: Annotated bibliography of recently translated material. VII. AD747125
- 72-17 Iampietro, P. F., Melton, C. E., Jr., Higgins, E. A., Vaughan, J. A., Hoffman, S. M., Funkhouser, G. E., and Saldivar, J. T: High temperature and performance in a flight task simulator. AD746057
- 72-18 Cobb, B. B., Jr., and Mathews, J. J: A proposed new test for aptitude screening of air traffic controller applicants. AD746058
- 72-19 Chiles, W. D., and West, G: Residual performance effects of simulated sonic booms introduced during sleep. AD747989
- 72-20 Lategola, M. T: The use of simple indicators for detecting potential coronary heart disease susceptibility in the air traffic controller population. AD747990
- 72-21 Jennings, A. E., Chiles, W. D., and West, G: Methodology in the measurement of complex human performance: Two-dimensional compensatory tracking. AD745259
- 72-22 Cobb, B. B., Jr., Mathews, J. J., and Lay, C. D: A comparative study of female and male air traffic controller trainees. AD751312
- 72-23 Smith, R. C: A study of the State-Trait Anxiety Inventory and the assessment of stress under simulated conditions. AD747991
- 72-24 Smith, R. C., and Hutto, G. L: Sonic booms and sleep: Affect change as a function of age. AD749277
- 72-25 Thackray, R. I., Jones, K. N., and Touchstone, R. M: Self-estimate of distractibility as related to performance decrement on a task requiring sustained attention. AD751396
- 72-26 Lategola, M. T: The use of simple indicators for detecting potential coronary heart disease susceptibility in the third-class airman population. AD749278

- 72-27 Karim, B., Bergey, K. H., Chandler, R. F., Hasbrook, A. H., Purswell, J. L., and Snow, C. C: A preliminary study of maximal control force capability of female pilots. AD753987
- 72-28 Mohler, S. R: G effects on the pilot during aerobatics. AD751397
- 72-29 Lewis, M. F., Mertens, H. W., and Steen, J. A: Behavioral changes from chronic exposure to pesticides used in aerial application: Effects of Phosdrin on the performance of monkeys and pigeons on variable interval reinforcement schedules. AD749893
- 72-30 Folk, E. D., Garner, J. D., Cook, E. A., and Broadhurst, J. L: GPSS/360 computer models to simulate aircraft passenger emergency evacuation. AD755542
- 72-31 Tobias, J. V: Binaural processing of speech in light aircraft. AD753637
- 72-32 Tobias, J. V: Auditory effects of noise on air-crew personnel. AD757239
- 72-33 Cobb, B. B., Jr., Mathews, J. J., and Nelson, P. L: Attrition-retention rates of air traffic controller trainees recruited during 1960-1963 and 1968-1970. AD757933
- 72-34 Schroeder, D. J., Gilson, R. D., Guedry, F. E., and Collins, W. E: Alcohol and disorientation-related responses. VI. Effects of alcohol on eye movements and tracking performance during laboratory angular accelerations about the yaw and pitch axes. AD766937
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- 1973
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- 73-2 Smith, R. C: Job attitudes of air traffic controllers: A comparison of three air traffic control specialties. AD763508
- 73-3 Revzin, A. M: Subtle changes in brain functions produced by single doses of mevinphos (Phosdrin). AD763509
- 73-4 Revzin, A. M: Transient blindness due to the combined effects of mevinphos and atropine. AD763555
- 73-5 Yanowitch, R. E., Bergin, J. M., and Yanowitch, E. A: The aircraft as an instrument of self-destruction. AD763556
- 73-6 Lewis, M. F: Frequency of anticollision observing responses by solo pilots as a function of traffic density, ATC traffic warnings, and competing behavior. AD763557
- 73-7 Cobb, B. B., Jr., Nelson, P. L., and Mathews, J. J: The relationships of age and ATC experience to job performance rating of terminal area traffic controllers. AD773449
- 73-8 Booze, C. F., Jr: Prevalence and incidence of disease among airmen medically certified during 1965. AD773544
- 73-9 Hasbrook, A. H., and Rasmussen, P. G: In-flight performance of civilian pilots using moving-aircraft and moving-horizon attitude indicators. AD773450
- 73-10 Lategola, M. T., Lynn, C. A., Folk, E. D., Booze, C. F., Jr., and Lyne, P. J: Height and weight errors in aeromedical certification data. AD773452

Part I: Chronological Index

- 73-11 Thackray, R. I., Rylander, R., and Touchstone, R. M: Sonic boom startle effects: Report of a field study. AD773451
- 73-12 Lewis, M. F., and Ferraro, D. P: Flying high: The aeromedical aspects of marihuana. AD775889
- 73-13 Tobias, J. V., and Irons, F. M: Reception of distorted speech. AD777564
- 73-14 Thackray, R. I., Jones, K. N., and Touchstone, R. M: Personality and physiological correlates of performance decrement on a monotonous task requiring sustained attention. AD777825
- 73-15 Smith, R. C., and Melton, C. E., Jr: Susceptibility to anxiety and shift difficulty as determinants of state anxiety in air traffic controllers. AD777565
- 73-16 Thackray, R. I., Touchstone, R. M., and Bailey, J. P: A comparison of the startle effects resulting from exposure to two levels of simulated sonic booms. AD777581
- 73-17 Schroeder, D. J., Collins, W. E., and Elam, G. W: Effects of secobarbital and d-amphetamine on tracking performance during angular acceleration. AD777582
- 73-18 Steen, J. A., Collins, W. E., and Lewis, M. F: Utility of several clinical tests of color-defective vision in predicting daytime and nighttime performance with the aviation signal light gun. AD777563
- 73-19 Constant, G. N., Goulden, D. R., and Grimm, E. J: Aviation medicine translations: Annotated bibliography of recently translated material. VIII. AD776136
- 73-20 Tobias, J. V., and Irons, F. M: Ear-protector ratings. AD779552
- 73-21 Melton, C. E., Jr., McKenzie, J. M., Polis, B. D., Hoffmann, S. M., and Saldivar, J. T: Physiological responses in air traffic control personnel: Houston Intercontinental Tower. AD777838
- 73-22 Melton, C. E., Jr., McKenzie, J. M., Smith, R. C., Polis, B. D., Higgins, E. A., Hoffmann, S. M., Funkhouser, G. E., and Saldivar, J. T: Physiological, biochemical, and psychological responses in air traffic control personnel: Comparison of the 5-day and 2-2-1 shift rotation patterns. AD778214
- 73-23 Leeper, R. C., Hasbrook, A. H., and Purswell, J. L: Study of control force limits for female pilots. AD777839
- 1974
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- 74-2 Mathews, J. J., Collins, W. E., and Cobb, B. B: A sex comparison of reasons for attrition of nonjourneyman FAA air traffic controllers. AD780558
- 74-3 Collins, W. E: Adaptation to vestibular disorientation. XII. Habituation of vestibular responses: an overview. AD780562
- 74-4 Young, J. W., Fisher, R. G., Price, G. T., and Chandler, R. F: Experimental trauma of occipital impacts. AD780668
- 74-5 Booze, C. F., Jr: Characteristics of medically disqualified airman applicants during calendar year 1971. AD781684
- 74-6 Lategola, M. T., and Layne, P. J: Amplitude/frequency differences in a supine resting single-lead electrocardiogram of normal versus coronary heart diseased males. AD781685
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- 75-4 Collins, W. E., Lennon, A. O., and Grimm, E. J: The use of vestibular tests in civil aviation medical examinations: Survey of practices and proposals by aviation medical examiners. ADA015087
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Part I: Chronological Index

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- 76-4 Constant, G. N., Grimm, E. J., Goulden, D. R., and Murcko, L. E: Aviation medicine translations: Annotated bibliography of recently translated material. IX. ADA031492/2GA
- 76-5 Vaughan, J. A., and Welsh, K. W: Visual evaluation of smoke-protective devices. ADA031493/0GI
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1977

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- 77-12 Mertens, H. W: Perceived orientation of a runway model in nonpilots during simulated night approaches to landing. ADA044553/GGI
- 77-13 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A: Readability of alphanumeric characters having various contrast levels as a function of age and illumination mode. ADA044554/4GI
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- 77-17 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Davis, A. W., Jr., Funkhouser, G. E., Jennings, A. E., Mullen, S. R., and Fowler, P. R: Effects of lithium carbonate on performance and biomedical functions. ADA044824/1GI

Part I: Chronological Index

- 77-18 Thackray, R. I., Bailey, J. P., and Touchstone, R. M: The effect of increased monitoring load on vigilance performance using a simulated radar display. ADA044558/5GI
- 77-19 Smith, P. W., Robinson, C. P., Zelenski, J. D., and Endecott, B. R: The role of monamine oxidase inhibition in the acute toxicity of chlordimeform. ADA045507/1GI
- 77-20 Dille, J. R., and Booze, C. F: The 1975 accident experience of civilian pilots with static physical defects. ADA045429/8GI
- 77-21 Smith, R. C., and Hutto, G. L: Job attitudes of airway facilities personnel. ADA04641/3GI
- 77-22 Revzin, A. M: Functional localization in the nucleus rotundus. ADA047717/4GI
- 77-23 Melton, C. E., Smith, R. C., McKenzie, J. M., Wicks, S. M., and Saldivar, J. T: Stress in air traffic personnel: Low-density towers and flight service stations. ADA046826/4GI
- 77-24 Collins, W. E., Hasbrook, A. H., Lennon, A. O., and Gay, D. J: Disorientation training in FAA-certificated flight and ground schools: a survey. ADA047718/2GI
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- 1978
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- 78-2 Revzin, A. M: Effects of ethanol on visual unit activity in the thalamus. ADA05092/4GI
- 78-3 Pollard, D. W., Garner, J. D., Blethrow, J. G., and Lowrey, D. L: Passenger flow rates between compartments: Straight-segmented stairways, spiral stairways, and passageways with restricted vision and changes of attitude. ADA05148/1GI
- 78-4 deSteiguer, D., Pinski, M. S., Bannister, J. R., and McFadden, E. B: Aircrew and passenger protective breathing equipment studies. ADA05100/4GI
- 78-5 Higgins, E. A., Lategola, M. T., and Melton, C. E: Three reports relevant to stress in aviation personnel. ADA051690/GGI
- 78-6 Chandler, R. F., and Trout, E. M: Evaluation of seating and restraint systems and anthropomorphic dummies conducted during fiscal year 1976. ADA051691/4GI
- 78-7 Lewis, M. A: Use of the occupational knowledge test to assign extra credit in selection of air traffic controllers. ADA05367/5GI
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- 78-9 McFadden, E. B: Human respiratory considerations for civil transport aircraft system. ADA053223/4GI
- 78-10 Boone, J. O: The relationship of predevelopmental "150" training with noncompetitively selected air traffic control trainees to FAA Academy success. ADA055009/5GI

- 78-11 Thackray, R. I., Touchstone, R. M., and Bailey, J. P: A comparison of the vigilance performance of men and women using a simulated radar task. ADA053674/8GI
- 78-12 Chandler, R. F., and Trout, E. M: Child restraint systems for civil aircraft. ADA053565/8GI
- 78-13 Kirkham, W. R., Collins, W. E., Grape, P. M., Simpson, J. M., and Wallace, T. F: Spatial disorientation in general aviation accidents. ADA053230/9GI
- 78-14 Young, J. W., and Pinski, M. S: Three-dimensional anthropometry of the adult face. ADA054938/GGI
- 78-15 Mertens, H. W: Comparison of the visual perception of a runway model in pilots and nonpilots during simulated night landing approaches. ADA054450/2GI
- 78-16 Gerathewohl, S. J: Psychophysiological effects of aging: Developing a functional age index for pilots: II. Taxonomy of psychological factors. ADA054356/1GI
- 78-17 Rasmussen, P. G., Welsh, K. W., and Vaughan, J. A: Comparative readability of enroute low altitude charts with and without terrain depiction. ADA054796/8GI
- 78-18 Melton, C. E., McKenzie, J. M., Saldivar, J. T., and Wicks, S. M: Experimental attempts to evoke a differential response to different stressors. ADA054795/0GI
- 78-19 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Jennings, A. E., Funkhouser, G. E., and Mullen, S. R: The effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance. ADA054793/5GI
- 78-20 Lategola, M. T., Davis, A. W., Jr., Lyne, P. J., and Burr, M. J: Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances. ADA055089/7GI
- 78-21 Booze, C. F: The morbidity experience of air traffic control personnel, 1967-1977. ADA056053/26I
- 78-22 Welsh, K. W., Vaughan, J. A., and Rasmussen, P. G: Aeromedical implications of the X-Chrom lens for improving color vision deficiencies. ADA054794/3GI
- 78-23 Garner, J. D., Chandler, R. F., and Cook, E. A: GPSS computer simulation of aircraft passenger emergency evacuations. ADA056098/7GI
- 78-24 Chandler, R. F., and Trout, E. M: Evaluation of seating and restraint systems and anthropomorphic dummies conducted during fiscal year 1977. ADA056905/3GI
- 78-25 Dark, S. J., and Davis, A. W., Jr: Characteristics of medically disqualified airman applicants in calendar years 1975 and 1976. ADA058158/7GI
- 78-26 Robinson, C. P., Beiergrohslein, D., Smith, P. W., and Crane, C. R: Reactions of methamidophos with mammalian cholinesterases. ADA058683/4GI
- 78-27 Gerathewohl, S. J: Psychophysiological effects of aging: Developing a functional age index for pilots: III. Measurement of pilot performance. ADA062501/2GA
- 78-28 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A: Visual performance assessment through clear and sunscreen-treated windows. ADA059750/0GA
- 78-29 Welsh, K. W., Vaughan, J. A., and Rasmussen, P. G: Conspicuity assessment of selected propeller and tail rotor paint schemes. ADA061875/1GA

Part I: Chronological Index

- 78-30 McKenzie, J. M: Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. ADA056200/9GI
- 78-31 Lacefield, D. J., Roberts, P. A., and Blossom, C. W: Agricultural aviation versus other general aviation: Toxicological findings in fatal accidents. ADA060110/4GA
- 78-32 Smith, R. C: As evaluation of four MTS recurrent training courses. ADA061519/5GA
- 78-33 Chiles, W. D., and Jennings, A. E: Time-sharing ability in complex performance: An expanded replication. ADA061879/3GA
- 78-34 Chiles, W. D., Jennings, A. E., and Alluisi, E. A: The measurement and scaling of workload in complex performance. ADA061725/8GA
- 78-35 Reighard, H. L., and Dailey, J. T: Task force deterrence of air piracy—final report. ADA076457/1
- 78-36 Boone, J. O., and Lewis, M. A: The development of the ATC selection battery: A new procedure to make maximum use of available information when correcting correlations for restriction in range due to selection. ADA066131/2GA
- 78-37 Jennings, A. E: A method to evaluate performance reliability of individual subjects in laboratory research applied to work settings. ADA063731/4GA
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- 1979**
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- 79-4 Lewis, M. F., and Mertens, H. W: Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators. ADA066220/5GA
- 79-5 Tobias, J. V., and Kidd, G. D., Jr: Acoustic signals for emergency evacuation. ADA066113/2.A
- 79-6 Pollard, D. W: Injuries in air transport emergency evacuations. ADA069372/1GA
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- 79-10 Higgins, E. A., McKenzie, J. M., Funkhouser, G. E., and Mullen, S. R: Effects of propranolol on time of useful function (TUF) in rats. ADA068535/4GA
- 79-11 Smith, R. C: A comparison of the job attitudes and interest patterns of air traffic and airway facility personnel. ADA067826/8GA
- 79-12 Thackray, R. I., and Touchstone, R. M: Visual search performance during simulated radar observation with and without a sweepline. ADA068020/7GA
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- 79-14 Boone, J. O., and Lewis, M. A: The selection of air traffic control specialists: Two studies demonstrating methods to insure an accurate validity coefficient for selection devices. ADA068581/8GA
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- 79-16 Tobias, J. V: Interstimulus interval as it affects temporary threshold shift in serial presentations of loud tones. ADA072006/0GA
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- 79-21 Boone, J. O: Toward the development of a new selection battery for air traffic control specialists. ADA080065/6
- 79-22 Rasmussen, P. G., Garner, J. D., Blethrow, J. G., and Lowrey, D. L: Readability of self-illuminated signs in a smoke-obscured environment. ADA081260/2
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1980

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- 80-11 Dille, J. R., and Linder, M. K: The effects of tobacco on aviation safety. ADA091510/8
- 80-12 Chandler, R. F., Garner, J. D., Lowrey, D. L., Blethrow, J. G., and Anderson, J. A: Considerations relative to the use of canes by blind travelers in air carrier aircraft cabins. ADA092528/9
- 80-13 Rasmussen, P. G., Chesterfield, B. P., and Lowrey, D. L: Readability of self-illuminated signs obscured by black fuel-fire smoke. ADA092529/7
- 80-14 Smith, R. C: Stress, anxiety, and the air traffic control specialist: Some conclusions from a decade of research. ADA093266/5
- 80-15 Boone, J. O., Van Buskirk L., and Steen, J. A: The Federal Aviation Administration's radar training facility and employee selection and training. ADA093027/1
- 80-16 Melton, C. E: Effects of long-term exposure to low levels of ozone: A review. ADA094426/4
- 80-17 Thackray, R. I., and Touchstone, R. M: An exploratory investigation of various assessment instruments as correlates of complex visual monitoring performance. ADA097276/0
- 80-18 deSteiguer, D., and Saldivar, J. T: Evaluation of the protective efficiency of a new oxygen mask for aircraft passenger use to 40,000 feet. ADA097046/7

- 80-19 Dark, S.J: Characteristics of medically disqualified airman applicants in calendar years 1977 and 1978. ADA098766/9
- 80-20 McKenzie, J.M: Vocational options for those with sickle cell trait: Questions about hypoxemia and the industrial environment. ADA098706/5
- 1981
- 81-1 Dille, J. R., and Haraway, A: Index to FAA Office of Aviation Medicine Reports: 1961 through 1980. ADA106227/2
- 81-2 Lategola, M. T., Lyne, P. J., and Burr, M. J: Cardiorespiratory assessment of 24-hour crash-diet effects on altitude, +Gz, and fatigue tolerances. ADA106379/1
- 81-3 Federal Aviation Administration Contract DOT-FA-77WA-4076: Neurological and neurosurgical conditions associated with aviation safety. ADA098697/6
- 81-4 Simpson, L. P., and Goulden, D. R: Aviation medicine translations: Annotated bibliography of recently translated material. X. ADA098916/0
- 81-5 Hutto, G. L., Smith, R. C., and Thackray, R. I: Methodology in the assessment of stress among air traffic control specialists (ATCS): Normative adult data for the State-Trait Anxiety Inventory from non-ATCS populations. ADA103192/1
- 81-6 Mertens, H. W., and Lewis, M. F: Effect of different runway size on pilot performance during simulated night landing approaches. ADA103190/5
- 81-7 Chesterfield, B. P., Rasmussen, P. G., and Dillon, R. D: Emergency cabin lighting installations: An analysis of ceiling- vs. lower-cabinmounted lighting during evacuation trials. ADA103191/3
- 81-8 Higgins, E. A., Mertens, H. M., McKenzie, J. W., and Funkhouser, G. E: Physiological, biochemical, and performance responses to a 24-hour crash diet. ADA103143/4
- 81-9 Booze, C. F., Jr: Prevalence of selected pathology among currently certified active airman. ADA103397/6
- 81-10 Kirkham, W. R: Improving the crashworthiness of general aviation aircraft by crash injury investigations. ADA103316/6
- 81-11 Hanneman, G. D: Factors related to the welfare of animals during transport by commercial aircraft. ADA106226/4
- 81-12 Thackray, R. I., and Touchstone, R. M: Age-related differences in complex monitoring performance. ADA106225/6
- 81-13 Melton, C. E., McKenzie, J. M., Wicks, S. M., and Saldivar, J. T: Fatigue in flight inspection field office (FIFO) flight crews. ADA106791/7
- 81-14 Dille, J. R., and Booze, C. F., Jr: The prevalence of visual deficiencies among 1979 general aviation accident airmen. ADA106489/8
- 81-15 Collins, W. E., Mastrullo, A. R., Kirkham, W. R., Taylor, D. K., and Grape, P. M: An analysis of civil aviation propeller-to-person accidents: 1965-1979. ADA105365/1
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1982

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- 82-2 Boone, J. O: A generic model for evaluation of the Federal Aviation Administration air traffic control specialist training programs. ADA106379/1
- 82-3 Lategola, M. T., Lyne, P. J., and Burr, M. J: Alcohol-induced physiological displacements and their effects on flight-related functions. ADA115473/1
- 82-4 Lategola, M. T., Lyne, P. J., and Burr, M. J: Effects of prior physical exertion on tolerance to hypoxia, orthostatic stress, and physical fatigue. ADA114741/2
- 82-5 Lategola, M. T., and Flux, M: Evaluation of cardiopulmonary factors critical to successful emergency perinatal air transport. ADA114743/8
- 82-6 Mertens, H. W., and Lewis, M. F: Effects of approach lighting and variation in visible runway length on perception of approach angle in simulated night landings. ADA114742/0
- 82-7 Kirkham, W. R., Wicks, S. M., and Lowrey, D. L: Crashworthiness studies: Cabin, seat, restraint, and injury findings in selected general aviation accidents. ADA114878/2
- 82-8 Pollard, D. W., Folk, E. D., and Chandler, R. F: Flight attendant injuries: 1971-1976. ADA114909/5
- 82-9 Reynolds, H. M., Snow, C. C., and Young, J. W: Spatial geometry of the human pelvis. ADA118238/5
- 82-10 Higgins, E. A., Mertens, H. W., McKenzie, J. M., Funkhouser, G. E., White, M. A., and Milburn, N. J: The effects of physical fatigue and altitude on physiological, biochemical, and performance responses. ADA122796/6
- 82-11 Rock, D. B., Dailey, J. T., Ozur, H., Boone, J. O., and Pickrel, E. W: Selection of applicants for the air traffic controller occupation. ADA122795/8
- 82-12 Friedberg, W., Faulkner, D. N., and Snyder, L: Transport index limits for shipments of radioactive material in passenger-carrying aircraft. ADA122794/1
- 82-13 Kirkham, W. R., Wicks, S. M., Lowrey, D. L: G incapacitation in aerobatic pilots: A flight hazard. ADA123757/7
- 82-14 Norwood, G., and Jordan, J. L: Regulatory aviation medicine: Its philosophies and limitations. ADA124043/1
- 82-15 Lacefield, D. J., Roberts, P. A., and Grape, P. M: Carbon monoxide in-flight incapacitation: An occasional toxic problem in aviation. ADA123849/2
- 82-16 Thackray, R. I., and Touchstone, R. M: Performance of 40- to 50-year- old subjects on a radar monitoring task: The effects of wearing bifocal glasses and interpolated rest periods on target detection time. ADA123843/5
- 82-17 Melton, C. E: Physiological stress in air traffic controllers: A review. ADA123853/4
- 82-18 Boone, J. O: Functional aging in pilots: An examination of a mathematical model based on medical data on general aviation pilots. ADA123756/9

- 82-19 Schroeder, D. J., Collins, W. E., and Elam, G. W: Effects of some motion sickness suppressants on tracking performance during angular accelerations. ADA123839/3

1983

- 83-1 Dille, J. R., and Haraway, A: Index to FAA Office of Aviation Medicine Reports: 1961 through 1982. ADA127463/8
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- 83-3 Coltman, J. W: Design and test criteria for increased energy-absorbing seat effectiveness. ADA1280125/5
- 83-4 Mertens, H. W., McKenzie, J. M., and Higgins, E. A: Some effects of smoking withdrawal on complex performance and physiological responses. ADA126551/1
- 83-5 Dark, S. J: Characteristics of medically disqualified airline pilots. ADA127429/9
- 83-6 VanDeventer, A. D., Taylor, D. K., Collins, W. E., and Boone, J. O: Three studies of biographical factors associated with success in air traffic control specialist screening/training at the FAA Academy. ADA128784/6
- 83-7 Schroeder, D. J., and Deloney, J. R: Job attitudes toward the new maintenance concept of the Airway Facilities Service. ADA133282/4
- 83-8 Kirkham, W. R., Wicks, S. M., and Lowrey, D. L: Crashworthiness: An illustrated commentary on occupant survival in general aviation accidents. ADA130198/5
- 83-9 Boone, J. O: Radar Training Facility initial validation. ADA133220/4
- 83-10 deSteiguer, D., and Saldivar, J. T: An analysis of potential breathing devices intended for use by aircraft passengers. ADA132648/7
- 83-11 Pickrel, E. W., and Convey, J. J: Color perception and ATC job performance. ADA132649/5
- 83-12 Crane, C. R., Sanders, D. C., Endecott, B. R., and Abbott, J. K: Inhalation toxicology: III. Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil. ADA133221/2
- 83-13 Thackray, R. I., and Touchstone, R. M: Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle. ADA133602/3
- 83-14 deSteiguer, D., Saldivar, J. T., Higgins, E. A., and Funkhouser, G. E: The objective evaluation of aircrew protective breathing equipment: V. Mask/goggles combinations for female crewmembers. ADA134912
- 83-15 Mertens, H. W., Higgins, E. A., and McKenzie, J. M: Age, altitude, and workload effects on complex performance. ADA133594/2
- 83-16 Young, J. W., Chandler, R. F., Snow, C. C., Robinette, K. M., Zehner, G. F., and Lofberg, M. S: Anthropometric and mass distribution characteristics of the adult female. ADA135316
- 83-17 Schroeder, D. J., and Goulden, D. R: A bibliography of shift work research: 1950-1982. ADA135644
- 83-18 Dille, J. R., and Booze, C. F., Jr: The 1980 and 1981 accident experience of civil airmen with selected visual pathology. ADA134898

Part I: Chronological Index

1984

- 84-1 Pollard, D. W., Steen, J. A., Biron, W. J., and Cremer, R. L: Cabin safety subject index. ADA140409
- 84-2 Sells, S. B., Dailey, J. T., and Pickrel, E. W: Selection of air traffic controllers. ADA147765
- 84-3 Booze, C. F., Jr., and Simcox, L. S: Blood pressure levels of active pilots compared with those of air traffic controllers. ADA146645
- 84-4 Lategola, M. T., Davis, A. W., Jr., Gilcher, R. O., Lyne, P. J., and Burr, M. J: Aviation-related cardiorespiratory effects of blood donation in female private pilots. ADA148045
- 84-5 Hanneman, G. D., and Sershon, J. L: Tolerance endpoint for evaluating the effects of heat stress in dogs. ADA148104
- 84-6 VanDeventer, A. D., Collins, W. E., Manning, C. A., Taylor, D. K., and Baxter, N. E: Studies of poststrike air traffic control specialist trainees: I. Age, biographic factors, and selection test performance related to Academy training success. ADA147892
- 84-7 Dille, J. R., and Harris, H. L: Efforts to improve aviation medical examiner performance through continuing medical education and annual performance reports. ADA148078
- 84-8 Booze, C. F., Jr: Health examination findings among active civil airmen. ADA148325
- 84-9 Dark, S. J: Medically disqualified airline pilots. ADA149454

1985

- 85-1 Pollard, D. W., Steen, J. A., and Penland, T: Federal Aviation Regulations Part 135 cabin safety subject index. ADA156946
- 85-2 Melton, C. E: Physiological responses to unvarying (steady) and 2-2-1 shifts: Miami International Flight Service Station. ADA155751
- 85-3 Mertens, H. W., and Collins, W. E: The effects of age, sleep deprivation, and altitude on complex performance. ADA156987
- 85-4 Crane, C. R., Sanders, D. C., Endecott, B. R., and Abbott, J. K: Inhalation toxicology: IV. Times to incapacitation and death for rats exposed continuously to atmospheric hydrogen chloride gas. ADA157400
- 85-5 Collins, W. E., Mertens, H. W., and Higgins, E. A: Some effects of alcohol and simulated altitude on complex performance scores and Breathalyzer readings. ADA158925
- 85-6 Booze, C. F., Jr., and Staggs, C. M: A comparison of postmortem coronary atherosclerosis findings in general aviation pilot fatalities. ADA159811
- 85-7 Convey, J.J: Passing scores for the FAA ATCS color vision test. ADA160889
- 85-8 Lacefield, D.J., Roberts, P.A., and Grape, P.M: Drugs of abuse in aviation fatalities: 1. Marijuana. ADA161911
- 85-9 Dark, S.J: Characteristics of medically disqualified airman applicants in calendar years 1982 and 1983. ADA162209

- 85-10 Higgins, E.A., Saldivar, J.T., Lyne, P.J., and Funkhouser, G.E: Evaluation of a passenger mask modified with a rebreather bag for protection from smoke and fumes. ADA162473
- 85-11 Rueschhoff, B.J., Higgins, E.A., Burr, M.J. and Branson, D.M: Development and evaluation of a prototype life preserver. ADA163224
- 85-12 Russell, J.C., and Davis, A.W: Alcohol rehabilitation of airline pilots. ADA163076
- 85-13 Thackray, R.I., and Touchstone, R.M: The effect of visual taskload on critical flicker frequency (CFF) change during performance of a complex monitoring task. ADA163673

1986

- 86-1 Sanders, D.C., Crane, C.R., and Endecott, B.R: Inhalation toxicology: V. Evaluation of relative toxicity to rats of thermal decomposition products from two aircraft seat fire-blocking materials. ADA165034
- 86-2 Melton, C.E. and Bartanowicz, R.S: Biological rhythms and rotating shift work: Some considerations for air traffic controllers and managers. ADA168742
- 86-3 Crane, C.R., Sanders, D.C., Endecott, B.R., and Abbott, J.K: Inhalation toxicology: VI. Evaluation of the relative toxicity of thermal decomposition products from nine aircraft panel materials, ADA168250
- 86-4 Thackray, R.I., and Touchstone, R.M: Complex monitoring performance and the coronary-prone Type A behavior pattern. ADA168240
- 86-5 Crane, C.R., Sanders, D.C., Endecott, B.R., and Abbott, J.K: Inhalation toxicology: VII. Times to incapacitation and death for rats exposed continuously to atmospheric acrolein vapor.
- 86-6 Convey, J.J: The Flight Service Station Training Program: 1981-1985. ADA171485
- 86-7 Dark, S.J: Medically disqualified airline pilots. ADA173244
- 86-8 Crane, C.R., and Sanders, D.C: Inhalation toxicology: VIII. Establishing heat tolerance limits for rats and mice subjected to acute exposures at elevated air temperatures. ADA173031
- 86-9 Collins, W.E: Effects of sleep loss on vestibular responses during simple and complex vestibular stimulation. ADA173292

1987

- 87-1 Dille, J.R., and Grimm, M.H: Index to FAA Office of Aviation Medicine Reports: 1961 through 1986. ADA180281
- 87-2 Higgins, E.A., Saldivar, J.T., Lyne, P.J., and Funkhouser, G.E: A study of passenger workload as related to protective breathing requirements. ADA181089
- 87-3 Hanneman, G.D., and Sershon, J.L: Tolerance by unacclimated Beagle dogs to freezing and subfreezing temperatures. ADA181304
- 87-4 Schroeder, D.J., Collins, W.E., and Dollar, C.S: 1986 survey of aviation business operators: Their views of FAA airworthiness inspectors. ADA181369
- 87-5 Higgins, E.A: Summary report of the history and events pertinent to the Civil Aeromedical Institute's evaluation of providing smoke/fume protective breathing equipment for airline passenger use. ADA184499

Part I: Chronological Index

- 87-6 Diehl, A.E., and Lester, L.F: Private pilot judgment training in flight school settings. ADA188408
- 87-7 Booze, C.F., Jr: Sudden in-flight incapacitation in general aviation. ADA187044
- 87-8 Hanneman, G.D., and Sershon, J.L: A temperature/humidity tolerance index for transporting Beagle dogs in hot weather. ADA190948
- 1988
- 88-1 Thackray, R. I. , and Touchstone, R. M: An evaluation of the effects of high visual taskload on the separate behaviors involved in complex monitoring performance. ADA190641
- 88-2 Collins, W. E., and Mertens, H. W: Age, alcohol, and simulated altitude: Effects on performance and breathalyzer scores. ADA190642
- 88-3 Manning, C. A., Kegg, P. S., and Collins, W. E: Studies of poststrike air traffic control specialist trainees: II. Selection and Screening. ADA199177
- 88-4 Thackray, R. I: Performance recovery following startle: a laboratory approach to the study of behavioral response to sudden aircraft emergencies. ADA199827
- 88-5 Clough, D. L: Airway science curriculum demonstration project: Summary of initial evaluation findings. ADA201995
- 1989
- 89-1 Thackray, R. I., and Touchstone, R. M: A comparison of detection efficiency on an air traffic control monitoring task with and without computer aiding. ADA206422
- 89-2 Booze, C. F., Jr: Prevalence of disease among active civil airmen. ADA206050
- 89-3 Colangelo, E. J., and Russell, J. C: Injuries to seat occupants of light airplanes. ADA207579
- 89-4 Crane, C. R., Sanders, D. C., and Endecott, B. R: Inhalation toxicology: IX. Times-to-incapacitation for rats exposed to carbon monoxide alone, to hydrogen cyanide alone, and to mixtures of carbon monoxide and hydrogen cyanide. ADA208195
- 89-5 Higgins, E. A., and Vant, J. H. B: Operation Workload - A study of passenger energy expenditure during an emergency evacuation. ADA209234
- 89-6 Manning, C. A., Della Rocco, P. S., and Bryant, K. D: Prediction of success in FAA air traffic control field training as a function of selection and screening test performance. ADA209327
- 89-7 Collins, W. E., Schroeder, D. J., and Nye, L. G: Relationships of anxiety scores to Academy and field training performance of air traffic control specialists. ADA209326
- 89-8 Higgins, E. A., McLean, G. A., Lyne, P. J., Funkhouser, G. E., and Young, J. W: Performance evaluation of the Puritan-Bennett crewmember portable protective breathing device as prescribed by portions of FAA Action Notice A-8150.2. ADA210882
- 89-9 Shepherd, W. T., and Parker, J. F., Jr: Human factors issues in aircraft maintenance and inspection. ADA215 724
- 89-10 Schlegel, T. T., Higgins, E. A., McLean, G. A., Lyne, P. J., England, H. M., and Atocknie, P. A: Comparison of protective breathing equipment performance at ground level and 8,000 feet altitude using parameters prescribed by portions of FAA Action Notice A-8150.2. ADA212852

- 89-11 Higgins, E. A., McLean, G. A., Lyne, P. J., Funkhouser, G. E., and Young, J. W: Evaluation of the Scott Aviation portable protective breathing device for contaminant leakage as prescribed by FAA Action Notice A-8150.2. ADA216799
- 89-12 McLean, G. A., Higgins, E. A., and Lyne, P. J: The effects of wearing passenger protective breathing equipment on evacuation times through type III and type IV emergency aircraft exits in clear air and smoke. ADA216798
- 89-13 Melton, C. E: Airliner cabin ozone: an updated review. ADA233156.
- 89-14 Rasmussen, P. B. and Chittum, C. G: The influence of adjacent seating configurations on egress through a type III emergency exit. ADA218393
- 1990
- 90-1 Collins, W.E., Wayda, M.E., and Baxter, N.E: Index of FAA Office of Aviation Medicine Reports: 1961 through 1989. AD-221414
- 90-2 Myers, J.G: Management assessment: implications for development and training. ADA219178
- 90-3 Thackray, R.I., and Touchstone, R. M: Effects of monitoring under high and low taskload on detection of flashing and colored radar targets. ADA220313
- 90-4 Collins, W.E., Nye, L.G., and Manning, C.A: Studies of poststrike air traffic control specialist trainees: III. Changes in demographic characteristics of Academy entrants and biodemographic predictors of success in air traffic controller selection and Academy screening. ADA223480
- 90-5 Downey, L.E., and Dark, S.J: Medically disqualified airline pilots in calendar years 1987 and 1988. ADA224512
- 90-6 Manning, C.A., and Schroeder, D.J: Pilot views of Montgomery County, Texas automated FSS services. ADA227484
- 90-7 Hudson, L.S., Booze, C.F. Jr., and Davis, A.W: Right bundle branch block as a risk factor for subsequent cardiac events. ADA226596
- 90-8 Schroeder, D.J., Dollar, C.S., and Nye, L.G: Correlates of two experimental tests with performance in the FAA Academy air traffic control nonradar screen program. ADA226419
- 90-9 Mertens, H.W: Evaluation of functional color vision requirements and current color vision screening tests for air traffic control specialists. ADA227436
- 90-10 Nakagawara, V.B: The use of contact lenses in the civil airman population. ADA227450
- 90-11 Gowdy, V: Development of a crashworthy seat for commuter aircraft. ADA227486
- 90-12 Valdez, C.D: The FAA altitude chamber training flight profile: A survey of altitude reactions — 1965-1989. ADA230057
- 90-13 Della Rocco, P.S., and Manning, C.A: Selection of air traffic controllers for automated systems: applications from current research. ADA230058
- 90-14 Parker, J.F. Jr., and Shepherd, W.T., Co-editors: Second Federal Aviation Administration meeting on human factors issues in aircraft maintenance and inspection: Information exchange and communications. ADA230270

Part I: Chronological Index

- 90-15 Crane, C.R., Sanders, D.C., and Endecott, B.R: Inhalation toxicology: X. Times to incapacitation for rats exposed continuously to carbon monoxide, acrolein, and to carbon monoxide-acrolein mixtures. ADA230639
- 90-16 Sanders, D.C., and Endecott, B.R: Inhalation toxicology: XI. The effect of elevated temperature on carbon monoxide toxicity. ADA231185
- 1991
- 91-1 Nakagawara, V.B: The effect of simulated altitude on the visual fields of glaucoma patients and the elderly. ADA233167
- 91-2 Hordinsky, J.R., and George, M.H: Utilization of emergency medical kits by air carriers. ADA234784
- 91-3 Hordinsky, J.R., and George, M.H: Response capability during civil air carrier inflight medical emergencies. ADA235526
- 91-4 Broach, D: Flight service specialist initial qualifications course: Content validation of FAA Academy course 50232. ADA237126
- 91-5 Myers, J. G. and Stutzman, T.M: Job task-competency linkages for FAA first-level supervisors. ADA236695
- 91-6 Funkhouser, G.E., and Fairlie, G.W: Donning times and flotation characteristics of infant life preservers: Four representative types. ADA237120
- 91-7 Turner, J.W., and Huntley, M. S. Jr: The use and design of flightcrew checklists and manuals. ADA237206
- 91-8 Nye, L.G., and Collins, W.E: Some personality characteristics of air traffic control specialist trainees: Interactions of personality and aptitude test scores with FAA Academy success and career expectations. ADA238027
- 91-9 Wing, H., and Manning, C.A: Selection of air traffic controllers: Complexity, requirements, and public interest. ADA238267
- 91-10 Witt, L. A., and Myers, J.G: Two studies on participation in decision-making and equity among FAA personnel. ADA239907
- 91-11 Witt, L. A., and Broach, D: Exchange ideology as a moderator of the procedural justice-satisfaction relationship. ADA239908
- 91-12 McLean, G.A, Wilcox, B.C., and Canfield, D.V: Selection criteria for alcohol detection methods. ADA240441
- 91-13 Turner, J.W., and Huntley, M. S. Jr: Civilian training in high-altitude flight physiology. ADA241296
- 91-14 Nakagawara, V.B., Loochan, F.K., and Wood, K.J: The prevalence of aphakia in the civil airman population. ADA214032
- 91-15 Witt, L. A., and Hellman, C.M: Cross-level inferences of job satisfaction in the prediction of intent to leave. ADA242779
- 91-16 Shepherd, W.B., Johnson, W.B., Druray, C.G., Taylor, J.C., and Berninger, D: Human factors in aviation maintenance. Phase 1: Progress report. ADA243844
- 91-17 Sanders, D.C., Endecott, B.S., and Chaturvedi, A.K: Inhalation toxicology: XII. Comparison of toxicity rankings of six polymers in lethality and by incapacitation in rats. ADA244599
- 91-18 Broach, D: Air traffic control specialists in the Airway Science Curriculum Demonstration Project 1984-1990: Third summative evaluation. ADA244128

1992

- 92-1 Collins, W.E., and Wayda, M.E: Index of FAA Office of Aviation Medicine Reports: 1961 through 1991. ADA245509
- 92-2 Friedberg, W., Snyder, L., and Faulkner, D.N: Radiation exposure of air carrier crewmembers II. ADA245508
- 92-3 Thackray, R.I: Human factors evaluation of the work environment of operators engaged in the inspection and repair of aging aircraft. ADA246445
- 92-4 May, N.D: Exposures from headset interference tones. ADA247175
- 92-5 Manning, C.A., and Aul, J.C: Evaluation of an alternative method for hiring air traffic control specialists with prior military experience. ADA246587
- 92-6 Mertens, H.W., Thackray, R.I., and Touchstone, M: Effects of color vision deficiency on detection of color-highlighted targets in a simulated air traffic control display. ADA246586
- 92-7 Nye, L.G., Witt, L.A., and Schroeder, D: Confirmatory factor analysis of burnout dimensions: Correlations with job stressors and aspects of social support and job satisfaction ADA247699
- 92-8 Witt, L.A., and Nye, L.G: Organizational goal congruence and job attitudes revisited. ADA247621
- 92-9 Witt, L.A., and Nye, L.G: Gender, equity, and job satisfaction. ADA246588
- 92-10 Nye, L.G., and Witt, L.A: Dimensionality and construct validity of the Perceptions of Organizational Politics Scale (POPS). ADA247620
- 92-11 O'Donnell, R.D., Hordinsky, J.R., Madakasira, S., Moise, S., and Warner, D: A candidate automated test battery for neuropsychological screening of airmen: Design and preliminary validation. ADA247701
- 92-12 Revzin, A.M., and Rasmussen, P.G: A new test of scanning and monitoring ability: Methods and initial results. ADA249123
- 92-13 Witt, L.A., and Hellman, C: Effects of subordinate feedback to the supervisor and participation in decision-making in the prediction of organizational support. ADA249125
- 92-14 Nakagawara, V.B., Loochan, F.K., and Wood, K.J: The prevalence of artificial lens implants in the civil airman population. ADA249125
- 92-15 Myers, J.G: Survey of aviation medical examiners: Information and attitudes about the pre-employment and pre-appointment drug testing program. ADA249124
- 92-16 Myers, J.G: A longitudinal examination of applicants to the air traffic supervisory identification and development program. ADA251879
- 92-17 Witt, L.A: Organizational politics, participation in decision-making, and job satisfaction. ADA251878
- 92-18 Wilcox, B.C., England, H.M. , Jr., and McLean, G.A: Inward contaminant leakage tests of the S-Tron Corporation emergency escape breathing device. ADA251888
- 92-19 Teague, S.M., and Hordinsky, J.R: Tolerance of beta blocked hypertensives during orthostatic and altitude stress. ADA249904

Part I: Chronological Index

- 92-20 Gowdy, V., and DeWeese, R: Evaluation of head impact kinematics for passengers seated behind interior walls. ADA252651
- 92-21 Witt, L.A: Procedural justice, occupational identification, and organizational commitment. ADA252493
- 92-22 England, H.M., Jr., Wilcox, B.C., Jr., and McLean, G.A: Comparisons of molecular sieve oxygen concentrators for potential medical use aboard commercial aircraft. ADA253648
- 92-23 White, V.L., Canfield, D.V., and Hordinsky, J.R: The identification and quantitation of triamterene in blood and urine from a fatal aircraft accident. ADA254550
- 92-24 Canfield, D.V., Kupiec, T.C., and Huffine, E.F: Postmortem alcohol production in fatal aircraft accidents. ADA254680
- 92-25 Huffine, E.F., and Canfield, D.V: Enhancement of drug detection and identification by use of various derivatizing reagents on GC-FTIR analysis. ADA254679
- 92-26 Manning, C.A., and Broach, D: Identifying ability requirements for operators of future automated air traffic control systems. ADA256615
- 92-27 McLean, G.A., Chittum, C.B., Funkhouser, G.E., Fairlie, G.W., and Folk, E.W: Effects of seating configuration and number of type III exits on emergency aircraft evacuation. ADA255754
- 92-28 Mertens, H.W., and Milburn, N.J: Performance of color-dependent tasks of air traffic control specialists as a function of type and degree of color vision deficiency. ADA255794
- 92-29 Mertens, H.W., and Milburn, N.J: Validity of clinical color vision tests for air traffic control specialists. ADA258219
- 92-30 Della Rocco, P.S., Milburn, N., and Mertens, H: Comparison of performance on the Shipley Institute of Living scale, air traffic control specialist selection test, and FAA Academy screen. ADA259249
- 92-31 OU Vortac, Edwards, M.B., Jones, J.P., Manning, C.A., and Rotter, A.J: En route air traffic controllers' use of flight progress strips: A graph-theoretic analysis. ADA259062
- 1993
- 93-1 Rodgers, M.D., and Drechsler, G.K: Conversion of the CTA, Inc., en route operations concepts database into a formal sentence outline job task taxonomy. ADA261921
- 93-2 Collins, W.E: A review of civil aviation propeller-to-person accidents: 1980-1989. ADA260695
- 93-3 Antuñano, M.J: Index of international publications in aerospace medicine. ADA262908
- 93-4 Schroeder, D.J., Broach, D., and Young, W.C: Contribution of personality to the prediction of success in initial air traffic control specialist training. ADA264699
- 93-5 Galaxy Scientific Corporation: Human factors in aviation maintenance - Phase Two progress report. ADA264367
- 93-6 Wilcox, B., Jr., McLean, G., and England, H., Jr: Comparison of portable crewmember protective breathing equipment (CPBE) designs. ADA265362
- 93-7 Sanders, D.C., Endecott, B.R., Ritter, R.M., and Chaturvedi, A.K: Variations of time-to-incapacitation and carboxyhemoglobin values in rats exposed to two carbon monoxide concentrations. ADA266109

- 93-8 Chaturvedi, A.K., Endecott, B.R., Ritter, R.M., and Sanders, D.C: Variations in time-to-incapacitation and blood cyanide values for rats exposed to two hydrogen cyanide gas concentrations. ADA265924
- 93-9 Rodgers, M.D., and Blanchard, R.E: Accident proneness: A research review. ADA266032
- 93-10 Young, J.W: Head and face anthropometry of adult US citizens. ADA268661
- 93-11 Nakagawara, V.B., and Wood, K.J: Aviation accident risk for airmen with aphakia and artificial lens implants. ADA268389
- 93-12 Rodgers, M.D: SATORI: Situation assessment through the re-creation of incidents. ADA268390
- 93-13 Gilliland, K., and Schlegel, R.E: Readiness to perform testing: A critical analysis of the concept and current practices. ADA269397
- 93-14 Armenia-Cope, R., Marcus, J.H., Gowdy, R.V., and DeWeese, R.L: An assessment of the potential for neck injury due to padding of aircraft interior walls for head impact protection. ADA270509
- 93-15 Galaxy Scientific Corp: Human factors in aviation maintenance - Phase three, volume 1 progress report. ADA270508
- 93-16 Milburn, N.J., and Mertens, H.W: Validation of an inexpensive test illuminant for aeromedical color vision screening. N94-14854
- 93-17 Mertens, H.W., and Milburn, N.J: Validity of FAA-approved color vision tests for Class II and Class III aeromedical screening. N94-14846
- 93-18 Hellman, C.W., and Witt, L.A: Factors associated with continuance commitment to FAA matrix teams. ADA274561
- 93-19 McLean, G.A., Smith, L.T., Hill, T.J., and Rubenstien, C.J: Physiological correlates of stress-induced decrements in human perceptual performance. ADA274240
- 93-20 Prinzo O.V., and Britton, T.W: ATC/pilot voice communications — A survey of the literature. ADA274457
- 93-21 Nakagawara, V.B., Wood, K.J., and Montgomery, R.W: Vision impairment and corrective considerations of civil airmen. ADA275508
- 93-22 Rodgers, M.D. (ed.): An examination of the operational error database for air route traffic control centers. ADA275986
- 1994**
- 94-1 Collins, W.E., and Wayda, M.E: Index of FAA Office of Aviation Medicine Reports: 1961 through 1993. ADA275913
- 94-2 Witt, A.W: Perceptions of organizational support and affectivity as predictors of job satisfaction. ADA277047
- 94-3 OU Vortac, Edwards, M.B., Fuller, D.K., and Manning, C.A: Automation and cognition in air traffic control: An empirical investigation. ADA277057
- 94-4 Broach, D., and Brecht-Clark, J: Validation of the Federal Aviation Administration air traffic control specialist pre-training screen. ADA277549

Part I: Chronological Index

- 94-5 Blanchard, R.E., and Vardaman, J.J: Human factors in airway facilities maintenance: Development of a prototype outage assessment inventory. N94-26136
- 94-6 Schroeder, D.J., Touchstone, R.M., Stern, J.A., Stoliarov, N., and Thackray, R: Maintaining vigilance on a simulated ATC monitoring task across repeated sessions. ADA278792
- 94-7 Sanders, D.C., Chaturvedi, A.K., Endecott, B.R., Ritter, R.M., and Vu, N: Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters. N94-29919
- 94-8 Rasmussen, P., and Revzin, A: Scanning and monitoring performance can be affected by the reinforcement values of the events being monitored. N94-29918
- 94-9 Broach, D., and Manning, C.A: Validity of the air traffic control specialist nonradar screen as a predictor of performance in radar-based air traffic control training. ADA279745
- 94-10 Garner, R.P., Wilcox, B.C., England, H.M., and Nakagawara, V.B: Effects of cold exposure on wet aircraft passengers: A review. ADA280253
- 94-11 Marcus, J.E: A review of computer evacuation models and their data needs. ADA280707
- 94-12 Galaxy Scientific Corp: Human Factors in Aviation maintenance — Phase 3, Vol 2 progress report. ADA283287
- 94-13 Nye, L.G., Schroeder, D.J., and Dollar, C.S: Relationships of Type A behavior with biographical characteristics and training performance of air traffic control specialists. ADA283813
- 94-14 Canfield, D.V., Flemig, J., Hordinsky, J.R., and Veronneau, S.J.H: Unreported medications used in incapacitating medical conditions found in fatal civil aviation accidents. ADA284233
- 94-15 Nakagawara, V.B., Montgomery, R.W., and Wood, K.J: The applicability of commercial glare test devices in the aeromedical certification of pilot applicants. ADA284232
- 94-16 White, V.L., Canfield, D.V., and Hordinsky, J.R: Elimination of quinine in two subjects after ingestion of tonic water: An exploratory study. ADA284760
- 94-17 Stern, J.A., Boyer, D., and Schroeder, D.J: Blink rate as a measure of fatigue: A review. ADA284779
- 94-18 Endecott, B.R., Sanders, D.C., and Chaturvedi, A.K: Simultaneous gas-chromatographic determination of four toxic gases generally present in combustion gas atmospheres. ADA285666
- 94-19 Gowdy, V: The performance of child restraint devices in transport airplane passenger seats. ADA285624
- 94-20 Hilton Systems, Inc: Age 60 rule research, Part I: Bibliographic database. N95-13019
- 94-21 Hyland, D.T., Kay, E.J., Deimler, J.D., and Gurman, E.B: Age 60 rule research, Part II: Airline pilot age and performance: A review of the scientific literature. ADA286246
- 94-22 Kay, E.J., Harris, R.M., Voros, R.S., Hillman, D.J., Hyland, D.T., and Deimler, J.D: Age 60 Rule Research, Part III: Consolidated database experiments final report. ADA286247
- 94-23 Hyland, D.T., Kay, E.J., and Deimler, J.D: Age 60 Rule Research, Part IV: Experimental evaluation of pilot performance. N95-13199

- 94-24 Holloway, F.A: Low-dose alcohol effects on human behavior and performance: An update on post-1984 studies. N95-14863
- 94-25 Williams, K.W., Ed: Summary proceedings of the joint industry-FAA conference on development and use of PC-based aviation training devices. N95-14917
- 94-26 Stern, J.A., Boyer, D., Schroeder, D.J., Touchstone, R.M., and Stoliarov, N: Blinks, saccades, and fixation pauses during vigilance task performance. ADA290600
- 94-27 Endsley, M., and Rodgers, M.D: Situation awareness information requirements analysis for en route air traffic control. ADA289649

1995

- 95-1 Collins, W.E: A review of civil aviation fatal accidents in which "lost/disoriented" was a cause/factor. ADA290944
- 95-2 Parker, J.F., Jr., and Shepherd, W.T: Development of an intervention program to encourage shoulder harness use and aircraft retrofit in general aviation: Phases I and II. ADA290966
- 95-3 Harris, H.C., Schroeder, D.J., and Collins, W.E: The effects of age and low doses of alcohol on compensatory tracking during angular acceleration. N95-23934
- 95-4 Edwards, M.B., Fuller, D.K., OU Vortac, and Manning, C.A: The role of flight progress strips in en route air traffic control: A time-series analysis. ADA291152
- 95-5 Besco, R.O., Sangal, S.P., Nesthus, T.E., and Veronneau, S.J.H: A longevity and survival analysis for a cohort of retired airline pilots. ADA292060
- 95-6 Williams, K.W., and Blanchard, R.E: Qualification guidelines for personal computer-based aviation training devices: Instrument rating. ADA292961
- 95-7 Schroeder, D.J., Harris, H.C., Collins, W.E., and Nesthus, T.E: Some performance effects of age and low blood alcohol levels on a computerized neuropsychological test. ADA292324
- 95-8 Chaturvedi, A.K., and Sanders, D.C: Aircraft fires, smoke toxicity, and survival: An overview. ADA292919
- 95-9 OU VORTAC, Edwards, M.B., and Manning, C.A: Functions of external cues in prospective memory. ADA291932
- 95-10 Myers, J.G: Enhancing the effects of diversity awareness training: A review of the research literature. ADA293933; N95-26361
- 95-11 Nakagawara, V.B., Montgomery, R.W., and Wood, K.J: An assessment of aviation accident risk for aphakic civil airmen by class of medical certificate held and by age. ADA293407
- 95-12 Cruz, C.E., and Della Rocco, P.S: Sleep patterns in air traffic controllers working rapidly-rotating shifts: A field study. ADA294159; N95-26204
- 95-13 Mertens, H.W., Milburn, N.J., and Collins, W.E: Practical color vision tests for air traffic control applicants: En Route, Center, and Terminal facilities. ADA294560; N95-27323
- 95-14 Shepherd, W.T., and Galaxy Scientific Corp: Human factors in aviation maintenance — Phase IV progress report. N95-27696

Part I: Chronological Index

- 95-15 Prinzo, O.V., Hendrix, A., and Britton, T.W: Development of a coding form for approach control/pilot voice communications. N95-28540
- 95-16 Rodgers, M.D., and Drechsler, G.K: Conversion of the TRACON operations concepts database into a formal sentence outline job task taxonomy. N95-28819
- 95-17 Garner, R.P: The potential for pulmonary heat injury resulting from the activation of a cabin water spray system to fight aircraft cabin fires. N95-29224
- 95-18 Rodgers, M. (Ed): A human factors analysis of the operational demonstration flight inspection aircraft. N95-29365
- 95-19 Della Rocco, P.S., and Cruz, C.E: Shift work, age and performance: Investigation of the 2-2-1 shift schedule used in air traffic control facilities I: The sleep/wake cycle. N95-29261
- 95-20 Funkhouser, G.E., and George, M.H: Alternative methods for flotation seat cushion use. N95-29448
- 95-21 Hartel, C.E.J., and Hartel, G.F: Controller resource management—What can we learn from aircrews? ADA297386
- 95-22 McLean, G.A., George, M.H., Chittum, C.B., and Funkhouser, G.E: Aircraft evacuations through type-III exits I: Effects of seat placement at the exit. ADA297286
- 95-23 Boyer, D.J: The relationship among eye movements, head movements, and manual responses in a simulated air traffic control task. ADA298753
- 95-24 O'Donnell, R: The effect of alcohol and fatigue on an FAA readiness-to-perform test. ADA299076
- 95-25 McLean, G.A., and George, M.H: Aircraft evacuations through type-III exits II: Effects of individual subject differences. ADA299237
- 95-26 Chaturvedi, A.K., and Canfield, D.V: Role of metabolites in aviation forensic toxicology. ADA299212
- 95-27 Hunter, D.R: Airmen research questionnaire: Methodology and overall results. ADA300583
- 95-28 Canfield, D.V., Flemig, J.W., Hordinsky, J.R., and Birky, M: Drugs and alcohol found in fatal civil aviation accidents between 1989 and 1993. ADA302527
- 95-29 Mandella, J.G., Jr., and Garner, R.P: An economical alternative for the secondary container used for transporting infectious disease substances. ADA302648
- 95-30 DeWeese, R.L: An experimental abdominal pressure measurement device for child ATDs. ADA302651
- 95-31 Layton, C.F., and Shepherd, W.T: Results of a field study of the performance enhancement system: A support system for aviation safety inspectors. ADA303336
- 95-32 Schroeder, D.J., Rosa, R.R., and Witt, L.A: Some effects of 8- vs. 10-hour work schedules on the test performance/alertness of air traffic control specialists. ADA302810
- 1996**
- 96-1 Collins, W.E., and Wayda, M.E: Index of FAA Office of Aviation Medicine Reports: 1961 through 1995. ADA3040263
- 96-2 Shepherd, W.T., and Galaxy Scientific Corp: Human factors in aviation maintenance: Phase V progress report. ADA304262

-
- 96-3 Baker, S.P., Lamb, M.W., Li, G., and Dodd, R.S: Crashes of instructional flights: Analysis of cases and remedial approaches. ADA304890
- 96-4 Garner, R.P: Performance of a continuous flow passenger oxygen mask at an altitude of 40,000 ft. N96-22217
- 96-5 Albright, C.A., Truitt, T.R., Barile, A.B., OU Vortac, and Manning, C.A: How controllers compensate for the lack of flight progress strips. ADA305305
- 96-6 Morrison, J.E., Fotouhi C.H., and Broach D: A formative evaluation of the collegiate training initiative—Air Traffic Control Specialist Program. ADA305307
- 96-7 Marcus, J: Determination of effective thoracic mass. ADA306061
- 96-8 Williams, K.W: Qualification guidelines for personal computer-based aviation training devices: Instrument rating. ADA306206
- 96-9 Stern, J.A., Boyer, D., Schroeder, D.J., Touchstone, R.M., and Stoliarov, N: Blinks, saccades and fixation pauses during vigilance task performance: II. Gender and time of day. ADA307024
- 96-10 Kanki, B.G. (Editor), and Prinzo, O.V. (Co-Editor): Methods and metrics of voice communications. ADA307148
- 96-11 Marcus, J.H: Dummy and injury criteria for aircraft crashworthiness. ADA308948
- 96-12 Nakagawara, V.B., Coffey, J.D., and Montgomery, R.W: Ophthalmic requirements and considerations for the en route air traffic control specialist: An ergonomic analysis of the visual work environment. N96-25681
- 96-13 Young, W.C., Broach, D., and Farmer, W.L: Differential prediction of FAA Academy performance on the basis of gender and written Air Traffic Control Specialist aptitude test scores. ADA308354
- 96-14 Kupiec, T.C., Canfield, D.V., and White, V.L: The analysis of benzodiazepines in forensic urine samples. ADA309377
- 96-15 Beringer, D.B: Use of off-the-shelf PC-based flight simulators for aviation human factors research. ADA309237
- 96-16 Beringer, D.B., and Harris, H.C., Jr: A comparison of the effects of navigational display formats and memory aids on pilot performance. ADA309382
- 96-17 Canfield, D., White, V., Soper, J., and Kupiec, T: A comprehensive drug screening procedure for urine using HPLC, TLC, and mass spectroscopy. ADA309962
- 96-18 McLean, G.A., George, M.H., Funkhouser, G.E., and Chittum, C.B: Aircraft evacuations onto escape slides and platforms I: Effects of passenger motivation. ADA311257
- 96-19 Kirkbride, L.A., Jensen, R.S, Chubb, G.P., and Hunter, D.R: Developing the personal minimums tool for managing risk during preflight go/no-go decisions. ADA313639
- 96-20 Prinzo, O.V., and Maclin, O: Aviation topics speech acts taxonomy (ATSAT) pc user's guide version 2.0. ADA314179
- 96-21 Collins, W.E. and Dollar, C.S: Fatal general aviation accidents involving spatial disorientation: 1976-1992. ADA313864
- 96-22 Mertens, H.W., Milburn, N.J., and Collins, W.E: A further validation of the practical color vision test for enroute air traffic control applicants. ADA314600

Part I: Chronological Index

- 96-23 Della Rocco, P., and Cruz, C: Shift work, age, and performance: Investigation of the 2-2-1 shift schedule used in air traffic control facilities II: Laboratory performance measures. ADA315493
- 96-24 Bailey, L., and Shaw, R: Flight inspection crew resource management training needs analysis. ADA316691
- 96-25 Veronneau, S.J.H., Mohler, S.R., Pennybaker, A.L., Wilcox, B.C., and Sahiar, F: Survival at high altitudes: Wheel-well passengers. ADA317375
- 96-26 Prinzo O.V., and Maclin, O: An analysis of approach control/pilot voice communications. ADA317528
- 96-27 Nakagawara V.B., and Wood K.J: The use of task-specific lenses by presbyopic air traffic controllers at the en route radar console. ADA320284
- 1997
- 97-1 Collins, W.E., and Wayda, M.E: Index of FAA Office of Aviation Medicine Reports: 1961 through 1996. ADA322331
- 97-2 DeJohn, C.A., Veronneau, S.J.H., and Hordinsky, J.R: Inflight medical care: An update. ADA322708
- 97-3 Driskill, W.E., Weissmuller, J.J., Quebe, J., Hand, D.K., Dittmar, M.J., and Hunter, D.R: The use of weather information in aeronautical decision-making. ADA323543
- 97-4 Young, W.C., Broach, D., and Farmer, W.L: The effects of video game experience on computer-based Air Traffic Control Specialist, air traffic scenario test scores. ADA322774
- 97-5 Gilliland, K., and Schlegel, R.E: A laboratory model of Readiness-to-Perform testing: Learning rates and reliability analyses for candidate testing measures. ADA323620
- 97-6 Kochan, J.A., Jensen, R.S., Chubb, G.P., and Hunter, D.R: A new approach to aeronautical decision-making: The expertise method. ADA323793
- 97-7 Nesthus, T.E., Garner, R.P., Mills, S.H., and Wise, R.A: Effects of simulated general aviation altitude hypoxia on smokers and nonsmokers. ADA323899
- 97-8 Thompson, R.C., Hilton, T.F., and Witt, L.A: Where the safety rubber meets the shop floor: A confirmatory model of management influence on workplace safety.
- 97-9 Nesthus, T.E., Rush, L.L., and Wreggit, S.S: Effects of mild hypoxia on pilot performance at general aviation altitudes. ADA324719
- 97-10 Milburn, N.J., and Mertens, H.W: Evaluation of a range of target blink amplitudes for attention-getting value in a simulated air traffic control display. ADA326465
- 97-11 Taylor, H.L., Lintern, G., Hulin, C.L., Talleur, D., Emanuel, T., and Phillips, S: Transfer of training effectiveness of personal computer-based aviation training devices. ADA325887
- 97-12 Thompson, R.C., Hilton, T.F., and Behn, L.D: Baseline assessment of the National Association of Air Traffic Specialists/Federal Aviation Administration partnership. ADA326753
- 97-13 Endsley, M.R., and Rodgers, M.D: Distribution of attention, situation awareness, and workload in a passive air traffic control task: Implications for operational errors and automation.

- 97-14 Kupiec, T.C., and Chaturvedi, A.K: Stereochemical determination of selegiline metabolites in postmortem biological specimens.
- 97-15 Broach, D., and Manning, C.A: Review of air traffic controller selection: An international perspective.
- 97-16 Hunter, D.R: An evaluation of safety seminars.
- 97-17 Schroeder, D.J. and Dollar, C.S: Personality characteristics of pre/post-strike air traffic control applicants.
- 97-18 Marcus, J.H: A flexible cabin simulator.
- 97-19 Broach, D: Designing selection tests for the future National Airspace System architecture.
- 97-20 Court, M.C., and Marcus, J.H: Use of object-oriented programming to simulate human behavior in emergency evacuation of an aircraft's passenger cabin.
- 97-21 Salazar, G.J., DeJohn, C.A., Hansrote, R.W., and Key, O.R: Bloodborne Pathogens in Aircraft Accident Investigation.
- 97-22 Gronlund, S.D., Dougherty, M.R.P., Ohrt, D.D., Thomson, G.L., Bleckley, M.K., Bain, D.L., Arnell, F., and Manning, C.A: The role of memory in air traffic control.
- 97-23 Driskill, W.E., Weissmuller, J.J., Hand, D.K., and Hunter, D.R: The use of weather information in aeronautical decision-making: II.
- 97-24 Beringer, D.B., and Harris, H.C., Jr: Automation in general aviation: Two studies of pilot responses to autopilot malfunctions.
- 97-25 Gilliland, K., Schlegel, R.E., and Nesthus, T.E: Workshift and antihistamine effects on task performance.

PART II: AUTHOR INDEX

<i>Author</i>	<i>Report Number</i>	<i>Author</i>	<i>Report Number</i>
A			
Abbott, J.K. -----	70-4, 70-13, 72-12, 77-9, 83-12, 85-4, 86-3, 86-5.	Billings, C.E. -----	72-4.
Adams, T. -----	63-23, 63-25, 65-16, 65-28, 65-29, 65-30, 66-23.	Billings, S.M. -----	67-17.
Agee, F.L., Jr. -----	66-24.	Birkey, M. -----	95-28.
Albright, C.A. -----	96-5	Biron, W.J. -----	84-1.
Allen, M.E. -----	Tech.Pub.#1, 64-16, 65-17, 66-1, 66-2, 68-7.	Blanchard, R.E. -----	93-9, 94-5, 95-6.
Allgood, M.A. -----	70-16, 75-2, 75-13.	Bleckley, M.K. -----	97-22.
Alluisi, E.A. -----	78-34.	Blethrow, J.G. -----	66-42, 70-19, 72-15, 77-11, 78-3, 79-22, 80-12.
Anderson, J.A. -----	79-23, 80-12.	Blossom, C.W. -----	78-31.
Armstrong, R. -----	66-17.	Bolding, F.A. -----	80-8.
Ashby, F.K. -----	67-8.	Boone, J.O. -----	78-10, 78-36, 79-14, 79-21, 80-5, 80-7, 80-15, 82-2, 82- 11, 82-18, 83-6, 83-9.
Antufiano, M.J. -----	93-3.	Booze, C.F., Jr. -----	68-5, 68-9, 69-11, 70-18, 72-13, 73-8, 73-10, 74-5, 75-5, 76-7, 77-10, 77-20, 78-21, 79-19, 80-8, 81-9, 81-14, 83-18, 84-3, 84-8, 85-6, 87-7, 89-2, 90-7.
Armenia-Cope, R. -----	93-14.	Bourdet, N.M. -----	71-36.
Arnell, F. -----	97-22.	Boyer, D. -----	94-17, 94-26, 95-23, 96-9.
Atocknie, P.A. -----	89-10.	Braden, G.E. -----	69-22, 73-1.
Aul, J.C. -----	92-5.	Brake, C.M. -----	62-18, 63-1, 63-16, 63-22, 63-32, 65-27.
Aviation Medical Library, FAA -----	64-20.	Branson, D.M. -----	85-11.
B		Brecher, G.A. -----	69-23, 70-2, 71-22, 72-8.
Badgley, J.M. -----	69-22.	Brecher, M.H. -----	69-23, 70-2, 71-22.
Bailey, J.P. -----	73-16, 74-9, 75-8, 77-18, 78-11.	Brecht-Clark, J. -----	94-4.
Bailey, L.L. -----	96-24	Britton, T.W. -----	93-20, 95-15.
Bain, D.L. -----	97-22.	Broach, D.M. -----	91-4, 91-11, 91-18, 92-26, 93-4, 94-4, 94-9, 96-6, 96- 13, 97-4, 97-15, 97-19.
Baker, S.P. -----	96-3	Broadhurst, J.L. -----	72-30.
Balke, B. -----	62-6, 63-6, 63-12, 63-18, 63-33, 63-34, 64-2, 64-3, 66-36.	van Brummelen, A.G. --	65-8.
Bannister, J.R. -----	78-4.	Bruni, C.B. -----	69-6, 69-16.
Barile, A.B. -----	96-5	Bryant, K.D. -----	89-6.
Barnard, C. -----	66-16.	Busby, D.E. -----	77-11.
Bartanowicz, R.S. -----	86-2.	C	
Baxter, N.E. -----	84-6, 90-1.	Canfield, D.V. -----	91-12, 92-23, 92-24, 92-25, 94-14, 94-16, 95-26, 95-28, 96-14, 96-17.
Bedell, R.H.S. -----	67-22.	Capps, M.J. -----	Tech.Pub.#1, 64-14, 65-1, 65-2
Behn, L.D. -----	97-12.	Carroll, J.J. -----	70-16.
Beiergrohslein, D. -----	78-26.	Chandler, R.F. -----	68-24, 72-27, 74-4, 76-9, 77- 11, 78-6, 78-12, 78-23, 78-24, 79-17, 80-12, 82-8, 83-16.
Bergey, K.H. -----	72-27.	Chase, R.C. -----	72-4.
Bergin, J.M. -----	73-5.		
Berkley, W.J. -----	65-5, 65-6.		
Beringer, D.B. -----	96-15, 96-16, 97-24.		
Berninger, D. -----	91-16.		
Besco, R.O. -----	95-5.		

Part II: Author Index

Author	Report Number	Author	Report Number
Chaturvedi, A.K. -----	91-17, 93-7, 93-8, 94-7, 94-18, 95-8, 95-26, 97-14.	D	
Chesterfield, B.P. -----	80-13, 81-7.	Dailey, J.T. -----	77-25, 78-35, 82-11, 84-2.
Chiles, W.D. -----	69-6, 69-9, 69-10, 69-14, 69-16, 71-17, 71-28, 72-5, 72-11, 72-19, 72-21, 74-10, 75-10, 75-14, 76-1, 76-11, 77-15, 77-17, 78-19, 78-33, 78-34, 79-7.	Darden, E.B., Jr. -----	78-8.
Chittum, C.B. -----	89-14, 92-27, 95-22, 96-18.	Dark, S.J. -----	76-10, 78-25, 80-19, 83-5, 84-9, 85-9, 86-7, 90-5.
Chubb, G.P. -----	96-19, 97-6.	Daugherty, J.W. -----	62-10, 63-4.
Cierebiej, A. -----	69-18, 71-9.	Davis, A.W., Jr. -----	63-12, 68-15, 68-18, 70-8, 77-17, 78-20, 78-25, 80-8, 84-4, 85-12, 90-7.
Clark, G. -----	66-5, 66-26, 66-34, 69-19.	Davis, H.V. -----	71-41.
Clough, D.L. -----	88-5.	Deimler, J.D. -----	94-21, 94-22, 94-23.
Cobb, B.B., Jr. -----	62-2, 62-3, 63-31, 65-19, 65-22, 67-1, 68-14, 71-30, 71-36, 71-40, 72-18, 72-22, 72-33, 73-7, 74-2, 74-7, 74-8, 75-3, 76-6.	DeLafield, R.H. -----	69-12.
Coffey, J.D. -----	96-12.	Della Rocco, P.S. -----	89-6, 90-13, 92-30, 95-12, 95-19, 96-23.
Colangelo, E.J. -----	89-3.	Deloney, J.R. -----	83-7.
Collins, W.E. -----	62-17, 63-3, 63-13, 63-14, 63-29, Tech.Pub.#1, 64-14, 64-15, 64-16, 65-1, 65-2, 65-17, 65-18, 65-24, 66-37, 67-2, 67-6, 67-7, 67-12, 67-19, 68-2, 68-10, 68-28, 69-15, 69-20, 70-10, 70-17, 71-20, 71-30, 71-31, 71-34, 71-39, 72-34, 72-35, 73-17, 73-18, 74-2, 74-3, 74-7, 75-1, 75-3, 75-4, 76-12, 76-14, 77-24, 78-13, 79-7, 79-9, 79-26, 80-7, 81-15, 81-16, 82-19, 83-6, 84-6, 85-3, 85-5, 86-9, 87-4, 88-2, 88-3, 89-7, 90-1, 90-4, 91-8, 92-1, 93-2, 94-1, 95-1, 95-3, 95-7, 95-13, 96-1, 96-21, 96-22, 97-1.	deSteiguer, D. -----	78-4, 80-18, 83-10, 83-14.
Coltman, J.W. -----	83-3.	DeJohn, C.A. -----	97-2, 97-21.
Constant, G.N. -----	73-19, 76-4.	DeWeese, R. -----	92-20, 93-14, 94-19, 95-30.
Convey, J.J. -----	83-11, 85-7, 86-6.	Diehl, A.E. -----	87-6.
Cook, E.A. -----	72-30, 78-23.	Dill, D.B. -----	63-33.
Court, M.C. -----	97-20.	Dille, J.R. -----	62-12, 63-2, 63-21, 63-24, 63-27, 66-14, 66-27, 68-8, 68-16, 72-1, 74-1, 76-7, 77-1, 77-20, 79-19, 80-11, 81-1, 81-14, 83-1, 83-18, 84-7, 87-1.
Crain, R.A. -----	65-17, 66-2.	Dillon, R.D. -----	81-7.
Crane, C.R. -----	63-27, 67-21, 70-4, 70-13, 72-12, 77-9, 78-26, 83-12, 85-4, 86-1, 86-3, 86-5, 86-8, 89-4, 90-15.	Dittmar, M.J. -----	97-3.
Cremer, R.L. -----	84-1.	Dodd, R.S. -----	96-3.
Crosby, W.M. -----	68-6, 68-24, 69-3, 69-5.	Dollar, C.S. -----	87-4, 90-8, 94-13, 96-21, 97-17.
Cruz, C.E. -----	95-12, 95-19, 96-23.	Dougherty, M.R.P. -----	97-22.
Culver, J.F. -----	62-12.	Downey, L.E. -----	90-5.
		Drechsler, G.K. -----	93-1, 95-16.
		Driskill, W.E. -----	97-3, 97-23.
		Druray, C.G. -----	91-16.
		Duncan, J.C. -----	63-30.
		E	
		Earley, J.C. -----	62-7.
		Farmer, W.L. -----	96-13, 97-4.
		Edwards, M.B. -----	92-31, 94-3, 95-4, 95-9.
		Elam, G.W. -----	73-17, 81-16, 82-19.
		Emanuel, T. -----	97-11.
		Emerson, T.E., Jr. -----	62-18, 63-1, 63-16, 63-22, 66-11.
		Endecott, B.R. -----	70-3, 77-9, 77-19, 83-12, 85-4, 86-1, 86-3, 86-5, 89-4, 90-15, 90-16, 91-17, 93-7, 93-8, 94-7, 94-18.

<i>Author</i>	<i>Report Number</i>	<i>Author</i>	<i>Report Number</i>
Endsley, M.R. -----	94-27, 97-13.	Gay, D.J. -----	77-24.
England, H.M. -----	89-10, , 92-18, 92-22, 93-6, 94-10.	George, M.H. -----	91-2, 91-3, 95-20, 95-22, 95-25, 96-18.
F		Gerathewohl, S.J. -----	69-17, 69-24, 70-9, 71-10, 71-33, 75-5, 77-6, 78-16, 78-27.
Fairlie, G.W. -----	91-6, 92-27.	Gerke, R.J. -----	72-4.
Farmer, W.L. -----	96-13, 97-4.	Gibbons, H.L. -----	68-8, 69-9, 69-10, 71-18.
Faulkner, D.N. -----	78-8, 82-12, 92-2.	Gilcher, R.O. -----	84-4.
Feinberg, R. -----	65-9, 65-25.	Giles, E. -----	79-2.
Ferraro, D.P. -----	73-12, 75-6.	Gilliland, K. -----	93-13, 97-5, 97-25.
Fineg, J. -----	68-24.	Gilson, R.D. -----	71-20, 71-34, 72-34.
Fiorica, V. -----	66-6, 66-11, 66-14, 66-41, 68-4, 68-15, 68-23, 70-8, 70-18, 71-11, 71-15, 71-23, 71-41.	Gogel, W.C. -----	62-15, 63-10, 63-20, 63-28, 64-13, 65-11, 65-32, 66-22, 66-24, 67-18, 67-20.
Fisher, R.G. -----	74-4.	Goldman, R.F. -----	62-5.
Flemig, J.W. -----	94-14, 95-28.	Goulden, D.R. -----	71-5, 72-16, 73-19, 76-4, 81-4, 83-17.
Flux, M. -----	77-3, 77-16, 82-5.	Gowdy, R.V. -----	90-11, 92-20, 93-14, 94-19.
Folk, E.D. -----	70-18, 72-30, 73-10, 82-8, 92-27.	Grape, P.M. -----	77-8, 78-13, 80-3, 81-15, 82-15, 85-8.
Fotouhi, C.H. -----	96-6.	Grimm, E.J. -----	72-16, 73-19, 75-4, 76-4.
Fowler, P.R. -----	63-8, 67-5, 75-7, 77-17, 80-10, 83-2.	Grimm, M.H. -----	72-1, 74-1, 87-1.
Freud, S.L. -----	64-9, 64-10, 64-17, 66-25.	Gronlund, S.D. -----	97-22.
Friedberg, W. -----	71-26, 78-8, 80-2, 82-12, 92-2.	Guedry, F.E., Jr. -----	67-6, 67-7, 71-20, 71-34, 72-34.
Fromhagen, C. -----	71-18.	Gurman, E.B. -----	94-21.
Fulk, G.W. -----	91-1.	H	
Fuller, D.K. -----	94-3, 95-4.	Hanneman, G.D. -----	70-3, 77-8, 78-8, 81-11, 84- 5, 87-3, 87-8.
Funkhouser, G.E. -----	63-25, 66-14, 67-4, 67-17, 68-13, 68-15, 68-18, 70-5, 71-2, 71-17, 72-17, 73-22, 75-10, 75-14, 76-11, 77-8, 77-17, 78-19, 79-10, 80-10, 81-8, 82-10, 83-2, 83-14, 85-10, 87-2, 89-8, 89-11, 91-6, 92-27, 95-20, 95-22, 96-18.	Hand, D.K. -----	97-3, 97-23.
G		Hanson, P.G. -----	68-6, 68-24, 69-5, 69-13.
Galaxy Sci.Corp. -----	93-5, 93-15, 94-12, 95-14, 96-2.	Hansrote, R.W. -----	97-21.
Galerston, E.M. -----	68-13, 68-18.	Haraway, A. -----	81-1, 83-1.
Ganslen, R.V. -----	63-12, 63-34.	Harper, C.R. -----	66-30.
Garner, J.D. -----	62-1, 62-9, 65-7, 66-42, 70- 19, 72-30, 77-11, 78-3, 78-23, 79-22, 80-12.	Harris, H.C., Jr. -----	95-3, 95-7, 96-16, 97-24.
Garner, R.P. -----	94-10, 95-17, 95-29, 96-4, 97-7.	Harris, J.L. -----	84-7.
		Harris, R.M. -----	94-22.
		Harrison, H.F. -----	66-16, 70-21.
		Hartel, C.E.J. -----	95-21.
		Hartel, G.F. -----	95-21.
		Hartman, S. -----	79-2.
		Hasbrook, A.H. -----	62-7, 62-9, 62-13, 65-14, 66-32, 68-12, 68-22, 70-7, 71-24, 72-9, 72-27, 73-9, 73-23, 75-12, 77-24.
		Hauty, G.T. -----	65-5, 65-6, 65-16, 65-28, 65-29, 65-30.
		Hawkes, G.R. -----	62-11, 62-16.
		Hellman, C.M. -----	91-15, 92-13, 93-18.
		Hendrix, A. -----	95-15.

Part II: Author Index

Author	Report Number	Author	Report Number
Higgins, E.A. -----	63-23, 66-14, 66-39, 68-13, 68-15, 68-18, 69-10, 70-5, 70-8, 71-17, 71-41, 72-17, 73-22, 75-10, 75-14, 76-11, 77-8, 77-17, 78-5, 78-19, 79-10, 79-20, 80-9, 80-10, 81-8, 82-10, 83-2, 83-4, 83-14, 85-5, 85-10, 85-11, 87-2, 87-5, 89-5, 89-8, 89-10, 89-11, 89-12.	J	
Hill, R.J. -----	71-39.	Jeffress, L.A. -----	63-7.
Hill, T.J. -----	93-19.	Jenkins, C.D. -----	78-39.
Hillman, D.J. -----	94-22.	Jennings, A.E. -----	69-10, 69-14, 72-5, 72-11, 72-21, 75-10, 75-14, 76-1, 76-11, 77-17, 78-19, 78-33, 78-34, 78-37.
Hilton, T.F. -----	97-8, 97-12.	Jensen, R.S. -----	96-19, 97-6.
Hilton Systems, Inc. ----	94-20.	Johnson, W.B. -----	91-16.
Hinshaw, L.B. -----	62-18, 63-1, 63-16, 63-22, 63-26, 63-32, 66-11.	Jones, K.N. -----	71-5, 71-7, 71-29, 72-14, 72-16, 72-25, 73-14, 75-1.
Hoffman, S.M. -----	69-12, 72-17, 73-21, 73-22, 74-11, 75-7, 76-13, 77-5.	Jordan, J.L. -----	82-14.
Holloway, F.A. -----	94-24.	Jones, J.P. -----	92-31.
Holmes, D.D. -----	63-23, 63-26, 66-11.	Josenhans, W.K.T. -----	65-8.
Hordinsky, J.R. -----	91-2, 91-3, 92-11, 92-19, 92-23, 94-14, 94-16, 95-28, 97-2.	K	
Houk, V.N. -----	64-7.	Kanki, B.G. -----	96-10.
Hudson, L.S. -----	90-7.	Karim, B. -----	72-27.
Huffine, E.F. -----	92-24, 92-25.	Karson, S. -----	70-14.
Huffman, H.W. -----	64-15.	Kay, E.J. -----	94-21, 94-22, 94-23.
Hufnagel, C.A. -----	64-7.	Keen, F.R. -----	66-31.
Hulin, C.L. -----	97-11.	Kegg, P.S. -----	88-3.
Hunter, C.E. -----	65-31.	Kendall, W.W. -----	63-25.
Hunter, D.R. -----	95-27, 96-19, 97-3, 97-6, 97-16, 97-23.	Key, O.R. -----	97-21.
Huntley, M.S., Jr. -----	91-7, 91-13.	Kidd, G.D., Jr. -----	79-5.
Hurst, M.W. -----	78-39.	Kinn, J.B. -----	68-3.
Hutto, G.L. -----	72-24, 77-21, 81-5.	Kirkbride, L.A. -----	96-19.
Hyde, A.S. -----	63-30.	Kirkham, W.R. -----	78-13, 80-3, 80-6, 81-10, 81-15, 82-7, 82-13, 83-8.
Hyland, D.T. -----	94-21, 94-22, 94-23.	Knowlan, D.M. -----	64-11.
I		Kochan, J.A. -----	97-6.
Iampietro, P.F. -----	62-5, 62-18, 63-1, 63-23, 66-14, 66-23, 68-15, 69-10, 70-8, 70-22, 71-2, 71-4, 71-17, 72-17, 72-35, 75-10, 75-14.	Korty, P. -----	62-10, 63-4.
Ice, J. -----	63-30.	Kot, P.A. -----	64-11.
Irons, F.M. -----	73-13, 73-20.	Kranz, G. -----	70-10.
		Kupiec, T.C. -----	92-24, 96-14, 96-17, 97-14.
		L	
		Lacefield, D.J. -----	78-31, 82-15, 85-8.
		Lacey, D.E. -----	62-10, 63-4.
		Lacy, C.D. -----	71-5.
		Lamb, M.W. -----	96-3.
		Langston, E.D. -----	72-6, 72-7.
		Lategola, M.T. -----	63-11, 66-16, 66-17, 66-20, 66-21, 70-8, 70-18, 70-21, 71-8, 71-19, 72-20, 72-26, 73-10, 74-6, 77-3, 77-16, 78-5, 78-20, 79-8, 79-20, 80-9, 81-2, 82-3, 82-4, 82-5, 84-4.

<i>Author</i>	<i>Report Number</i>	<i>Author</i>	<i>Report Number</i>
Lay, C.D. -----	71-36, 72-22.	McKenzie, J.M. -----	63-8, 66-41, 67-5, 71-2, 71-21, 73-21, 73-22, 74-11, 75-7, 75-10, 75-14, 76-11, 76-13, 76-15, 77-17, 77-23, 78-18, 78-19, 78-30, 78-40, 79-10, 79-20, 80-10, 81-8, 81-13, 82-10, 83-2, 83-4.
Layton, C.F. -----	95-31.	McLean, G.A. -----	89-8, 89-10, 89-11, 89-12, 91-12, 92-18, 92-22, 92-27, 93-6, 93-19, 95-22, 95-25, 96-18.
Layne, P.J. -----	74-6.	Mehling, K.D. -----	71-31.
Leeper, R.C. -----	73-23.	Melton, C.E., Jr. -----	63-5, 64-18, 66-35, 66-39, 67-15, 68-26, 69-1, 69-12, 71-2, 71-21, 71-23, 72-17, 73-15, 73-21, 73-22, 74-11, 75-7, 76-2, 76-13, 77-5, 77-23, 78-5, 78-18, 78-40, 79-20, 80-9, 80-16, 81-13, 82-17, 85-2, 86-2, 89-13.
Lennon, A.O. -----	75-4, 77-24.	Melton, R.J. -----	79-23.
Lentz, J.M. -----	76-14.	Mertens, H.W. -----	65-32, 66-22, 66-38, 67-20, 67-24, 68-27, 70-15, 71-42, 72-29, 75-6, 77-12, 78-15, 79-4, 79-25, 81-6, 81-8, 82-6, 82-10, 83-4, 83-15, 85-3, 85-5, 88-2, 90-9, 92-6, 92-28, 92-29, 92-30, 93-16, 93-17, 95-13, 96-22, 97-10.
Lester, L.F. -----	87-6.	Mertens, R.A. -----	67-2, 68-7, 70-10, 71-5.
Leverett, S., Jr. -----	63-30.	Milburn, N.J. -----	82-10, 92-28, 92-29, 92-30, 93-16, 93-17, 95-13, 96-22, 97-10.
Lewis, M.A. -----	78-7, 78-36, 79-3, 79-14.	Mills, S.H. -----	97-7.
Lewis, M.F. -----	67-8, 67-16, 67-24, 68-20, 68-27, 70-15, 71-27, 71-32, 71-42, 72-29, 73-6, 73-12, 73-18, 75-6, 79-4, 81-6, 82-6.	Mohler, S.R. -----	62-4, 62-20, 63-2, 65-7, 65-13, 66-1, 66-3, 66-8, 66-25, 66-29, 66-30, 66-31, 66-32, 67-22, 68-8, 68-16, 69-2, 69-17, 69-18, 70-12, 71-9, 71-10, 71-33, 72-2, 72-28, 75-5, 80-4, 96-25.
Lewis, R.A. -----	69-6, 69-16.	Moise, S. -----	92-11.
Li, G. -----	96-3.	Montgomery, R.W. -----	93-21, 94-15, 95-11, 96-12.
Linder, M.K. -----	80-11.	Moore, C.M. -----	69-19.
Lintern, G. -----	97-11.	Morgan, J.C. -----	68-26.
Loewenfeld, I. -----	65-9.	Morris, Edward W. -----	66-27.
Lofberg, M.S. -----	83-16.	Morris, Everett W. -----	70-9.
Loochan, F.K. -----	91-14, 92-14.	Morrison, J.E. -----	96-6.
Lowenstein, O. -----	65-9.	Moser, E. -----	83-2.
Lowrey, D.L. -----	72-6, 77-11, 78-3, 79-22, 80-12, 80-13, 82-7, 82-13, 83-8.	Moser, K.M. -----	64-5, 64-7, 64-8.
Luchsinger, P.C. -----	64-8.	Moses, R. -----	66-14, 68-4, 71-11, 71-15, 80-10.
Lyne, P.J. -----	63-8, 73-10, 77-3, 77-16, 78-20, 81-2, 82-3, 82-4, 84-4, 85-10, 87-2, 89-8, 89-10, 89-11, 89-12.		
Lynn, C.A. -----	73-10.		
M			
Maclin, O. -----	96-20.		
Madakasira, S. -----	92-11.		
Mandella, J.G., Jr. -----	95-29.		
Manning, C.A. -----	84-6, 88-3, 89-6, 90-4, 90-6, 90-13, 91-9, 92-5, 92-26, 92-31, 94-3, 94-9, 95-4, 95-9, 96-5, 97-15, 97-22.		
Marcus, J.H. -----	93-14, 94-11, 96-7, 96-11, 97-18, 97-20.		
Mastrullo, A.R. -----	81-15.		
Masucci, F.D. -----	63-22.		
Mathews, J.J. -----	72-18, 72-22, 72-33, 73-7, 74-2, 74-7, 75-3.		
May, N.D. -----	92-4.		
McClenathan J.E. -----	64-7.		
McConville, J.T. -----	76-9.		
McCoy, J. -----	66-17.		
McFadden, E.B. -----	62-13, 62-21, 63-9, 65-7, 66-7, 66-13, 66-20, 67-3, 67-4, 67-9, 70-20, 71-37, 72-10, 78-1, 78-4, 78-9, 79-13.		

Part II: Author Index

<i>Author</i>	<i>Report Number</i>	<i>Author</i>	<i>Report Number</i>
Mullen, S.R. -----	77-17, 78-19, 79-10.	Podolak, E. -----	65-25, 68-3.
Murcko, L.E. -----	76-4, 77-1.	Polis, B.D. -----	71-2, 73-21, 73-22.
Myers, J.G. -----	90-2, 91-5, 91-10, 92-15, 92-16, 95-10.	Pollard, D.W. -----	78-3, 79-6, 79-23, 82-8, 84- 1, 85-1.
N		Price, G.T. -----	69-3, 69-13, 74-4, 77-8.
Nagle, F.J. -----	63-12, 63-34, 64-2, 66-36.	Prinzo, O.V. -----	93-20, 95-15, 96-10, 96-20, 96-26.
Nakagawara, V.B. -----	90-10, 91-1, 91-14, 92-14, 93-11, 93-21, 94-10, 94-15, 95-11, 96-12, 96-27.	Purswell, J.L. -----	72-27, 73-23.
Naughton, J. -----	64-2, 66-17, 66-21, 66-36.	Q	
Neal, G.L. -----	65-31.	Quebe, J. -----	97-3.
Neas, B.R. -----	78-8, 80-2.	R	
Nelson, J.M. -----	71-26.	Raeke, J.W. -----	62-21.
Nelson, P.L. -----	72-33, 73-7, 74-8.	Rana, B. -----	75-9.
Nesthus, T.E. -----	95-5, 95-7, 97-7, 97-9, 97-25.	Rasmussen, P.G. -----	70-7, 71-24, 72-9, 73-9, 75- 12, 77-2, 77-7, 77-13, 77-14, 78-17, 78-22, 78-28, 78-29, 78-41, 79-22, 80-13, 81-7, 89-14, 92-12, 94-8.
Newton, J.L. -----	63-33.	Reed, W. -----	72-6, 73-1.
Newton, N.L. -----	62-12.	Reighard, H.L. -----	65-3, 76-8, 78-35.
Nichols, E.A. -----	72-2.	Reins, D.A. -----	63-26, 65-27, 66-11.
Norwood, G.K. -----	71-25, 71-38, 82-14.	Revzin, A.M. -----	70-11, 73-3, 73-4, 77-22, 78-2, 79-15, 92-12, 94-8.
Nye, L.G. -----	89-7, 90-4, 90-8, 91-8, 92- 7, 92-8, 92-9, 92-10, 94-13.	Reynolds, H.I. -----	67-4.
O		Reynolds, H.M. -----	75-2, 75-13, 76-9, 82-9.
O'Connor, W.F. -----	65-10, 66-10, 66-15.	Rice, N. -----	70-10.
O'Dell, J.W. -----	70-14.	Rieger, J.A., Jr. -----	66-11.
O'Doherty, D.S. -----	65-4.	Ritter, R.M. -----	93-7, 93-8, 94-7.
O'Donnell, R.D. -----	92-11, 95-24.	Rizutti, B.L. -----	76-6.
Ohrt, D.D. -----	97-22.	Roberts, P.A. -----	78-31, 82-15, 85-8.
OU Vortac -----	92-31, 94-3, 95-4, 95-9, 96-5.	Robinette, K.M. -----	83-16.
Ozur, H. -----	82-11.	Robinson, C.P. -----	77-19, 78-26.
P		Robinson, S. -----	63-33.
Parker, J.F., Jr. -----	89-9, 90-14, 95-2.	Rock, D.B. -----	82-11.
Page, B.B. -----	63-22.	Rodgers, M.D. -----	93-1, 93-9, 93-12, 93-22, 94-27, 95-16, 95-18, 97-13.
Pearson, D.W. -----	68-17, 69-7, 69-19.	Rosa, R.R. -----	95-32.
Pearson, R.G. -----	63-35, 65-10, 65-31, 66-19.	Rose, R.M. -----	78-39.
Pendergrass, G.E. -----	63-27, 66-10, 66-15.	Ross, A. -----	67-22.
Penland, T. -----	85-1.	Rotter, A.J. -----	92-31.
Pennybaker, A.L. -----	96-25.	Rowlan D.E. -----	72-15.
Perloff, J.K. -----	64-19.	Rowland, R.C., Jr. -----	67-10.
Perry, R.B. -----	64-8.	Rubenstein, C.J. -----	93-19.
Phillips, E.E. -----	63-34.	Rueschhoff, B.J. -----	85-11.
Phillips, S. -----	97-11.	Rush, L. -----	97-9.
Pickrel, E.W. -----	77-25, 79-18, 82-11, 83-11, 84-2.	Russell, J.C. -----	85-12, 89-3.
Pidkowicz, J.K. -----	80-8.	Ryan, L.C. -----	70-3, 75-5, 80-4.
Pinkerson, A.L. -----	64-11.	Rylander, R. -----	73-11.
Pinski, M.S. -----	78-4, 78-14.		

<i>Author</i>	<i>Report Number</i>	<i>Author</i>	<i>Report Number</i>
S			
Sahiar, F. -----	96-25.	Snyder, R.G. -----	62-13, 62-19, 63-15, 63-30, 65-12, 65-26, 68-6, 68-19, 68-24, 69-3, 69-4, 69-5, 69- 13, 76-9.
Saldivar, J.T. -----	66-39, 68-26, 72-17, 73-21, 73-22, 74-11, 75-7, 76-13, 77-5, 77-23, 78-18, 78-40, 80-18, 81-13 83-10, 83-14, 85-10, 87-2.	Solomon, L.A. -----	66-11.
Salazar, G.J. -----	97-21.	Soper, J. -----	96-17.
Sanders, D.C. -----	67-21, 70-4, 70-13, 72-12, 77-9, 83-12, 85-4, 86-1, 86- 3, 86-5, 86-8, 89-4, 90-15, 90-16, 91-17, 93-7, 93-8, 94-7, 94-18, 95-8.	Spieth, W. -----	64-4.
Sangal, S.P. -----	95-5.	Staggs, C.M. -----	85-6.
Scarborough, W.R. -----	64-12, 65-8, 65-15.	Stavinoha, W.B. -----	66-11.
Schlegel, R.E. -----	93-13, 97-5, 97-25.	Stedman, V.G. -----	71-9.
Schlegel, T.T. -----	89-10.	Steen, J.A. -----	71-27, 71-32, 72-29, 73-18, 75-1, 75-6, 80-5, 80-15, 84- 1, 85-1.
Schroeder, D.J. -----	68-10, 70-10, 71-6, 71-16, 71-20, 71-31, 71-34, 71-39, 72-34, 73-17, 79-9, 81-16, 82-19, 83-7, 83-17, 87-4, 89- 7, 90-6, 90-8, 92-7, 93-4, 94-6, 94-13, 94-17, 94-26, 95-3, 95-7, 95-32, 96-9, 97-17.	Stern, J.A. -----	94-6, 94-17, 94-26, 96-9.
Scow, J. -----	66-15.	Stoliarov, N. -----	94-6, 94-26, 96-9.
Seipel, J.H. -----	64-6, 65-4, 67-11.	Stutzman, T.M. -----	91-5.
Sells, S.B. -----	84-2.	Swearingen, J.J. -----	62-1, 62-4, 62-13, 62-14, 63- 9, 65-7, 65-20, 65-23, 66-3, 66-12, 66-18, 66-40, 67-14, 69-22, 71-3, 71-12, 71-13, 72-6, 72-7, 72-15, 73-1.
Sershon, J.L. -----	84-5, 87-3, 87-8.	T	
Shanbour, K. -----	66-17, 66-21.	Talleur, D. -----	97-11.
Shaw, R.V. -----	96-24.	Tang, P.C. -----	63-21.
Shepherd, W.T. -----	89-9, 90-14, 91-16, 95-2, 95-14, 95-31, 96-2.	Taylor, D.K. -----	75-9, 81-15, 83-6, 84-6.
Siegel, P.V. -----	67-25, 68-9, 69-2, 69-17, 69-18, 71-10.	Taylor, H.L. -----	97-11.
Simcox, L.S. -----	84-3.	Taylor, J.C. -----	91-16.
Simpson, J.M. -----	66-13, 67-9, 78-13, 80-3.	Teague, S.M. -----	92-19.
Simpson, L.P. -----	81-4.	Thackray, R.I. -----	68-17, 69-7, 69-8, 69-21, 71-7, 71-29, 72-14, 72-25, 73-11, 73-14, 73-16, 74-9, 75-8, 77-18, 78-11, 79-12, 79-24, 80-1, 80-17, 81-5, 81-12, 82-1, 82-16, 83-13, 85-13, 86-4, 88-1, 88-4, 89- 1, 90-3, 92-3, 92-6, 94-6.
Sirkis, J.A. -----	70-9, 72-3.	Thomas, A.A. -----	71-41.
Smith, L.T. -----	93-19.	Thompson, R.C. -----	97-8, 97-12.
Smith, P.W. -----	62-8, 63-24, 69-9, 70-3, 77- 9, 77-19, 78-26.	Thomson, G.L. -----	97-22.
Smith, R.C. -----	70-20, 71-14, 71-21, 71-28, 71-30, 71-35, 72-23, 72-24, 73-2, 73-15, 73-22, 74-12, 75-7, 75-9, 76-2, 76-13, 77- 21, 77-23, 78-32, 79-11, 80-14, 81-5.	Tobias, J.V. -----	63-7, 63-17, 63-19, Tech. Pub.#1, 64-16, 65-17, 66-4, 67-10, 68-21, 68-25, 70-6, 71-1, 72-31, 72-32, 73-13, 73-20, 75-11, 76-3, 79-5, 79-16.
Snow, C.C. -----	62-9, 65-14, 65-26, 68-6, 68-19, 68-24, 69-3, 69-4, 69-5, 69-13, 70-16, 72-27, 75-2, 79-2, 82-9.	Touchstone, R.M. -----	69-21, 71-29, 72-14, 72-25, 73-11, 73-14, 73-16, 74-9, 75-8, 77-18, 78-11, 79-12, 79-24, 80-17, 81-12, 82-1, 82-16, 83-13, 85-13, 86-4, 88-1, 89-1, 90-3, 92-6, 94- 6, 94-26, 96-9.
Snyder, L. -----	77-8, 82-12, 92-2.		

Part II: Author Index

<i>Author</i>	<i>Report Number</i>	<i>Author</i>	<i>Report Number</i>
Trent, C.C. -----	79-8.	Wheelright, C.D. -----	62-1.
Trites, D.K. -----	61-1, 62-3, 63-31, 65-5, 65-6, 65-21, 65-22.	White, M.A. -----	83-2.
Trout, E.M. -----	78-6, 78-12, 78-24, 79-17.	White, M.E. -----	82-10.
Truitt, T.R. -----	96-5.	White, V.L. -----	92-23, 94-16, 96-14, 96-17.
Turner, J.W. -----	91-7, 91-13.	Wick, R.L., Jr. -----	72-4.
U		Wicks, S.M. -----	66-35, 66-39, 67-15, 68-26, 69-1, 77-23, 78-18, 78-40, 80-10, 81-13, 82-7, 82-13, 83-8.
Umberger, E.L. -----	66-25.	Wilcox, B.C., Jr. -----	91-12, 92-18, 92-22, 93-6, 94-10, 96-25.
Updegraff, B.P. -----	69-20.	Williams, K.W. -----	94-25, 95-6, 96-8.
V		Williams, M.J. -----	69-15.
Valdez, C.D. -----	77-4, 90-12.	Willis, D.M. -----	75-12.
VanBuskirk, L.K. -----	80-5, 80-15.	Wing, H. -----	91-9.
Vance, F.P. -----	68-26.	Winget, C.M. -----	75-10.
VanDeventer, A.D. -----	80-7, 83-6, 84-6.	Wise, R.A. -----	97-7.
Vant, J.H.B. -----	89-5.	Witt, L.A. -----	91-10, 91-11, 91-15, 92-7, 92-8, 92-9, 92-10, 92-13, 92-17, 92-21, 93-18, 94-2, 95-32, 97-8.
Vardaman, J.J. -----	94-5.	Wittmers, L.E. -----	65-27.
Vaughan, J.A. -----	68-13, 68-15, 68-18, 69-10, 70-5, 71-17, 72-17, 75-10, 75-14, 76-5, 76-11, 77-2, 77-7, 77-13, 77-14, 78-17, 78-22, 78-28, 78-29, 78-41, 79-20, 80-9.	Wood, K.J. -----	91-14, 92-14, 93-11, 93-21, 94-15, 95-11, 96-27.
Veregge, J.E. -----	66-25, 67-22, 67-23.	Wreggit, S. -----	97-9.
Veronneau, S.J.H. -----	94-14, 95-5, 96-25, 97-2.	Y	
Von Rosenberg, C.W. --	66-31.	Yanowitch, E.A. -----	73-5.
Voros, R.S. -----	94-22.	Yanowitch, R.E. -----	72-2, 73-5.
Vu, N. -----	94-7.	Young, C.L. -----	76-6.
W		Young, F.A. -----	79-2.
Wallace, T.F. -----	69-22, 72-15, 78-13, 80-3.	Young, J.W. -----	62-21, 65-23, 66-9, 66-33, 67-13, 69-3, 69-4, 69-5, 69-13, 71-37, 74-4, 76-9, 78-14, 82-9, 83-16, 89-8, 89-11, 93-10.
Warner, D. -----	92-11.	Young, P.E. -----	68-11, 68-12.
Wayda, M.E. -----	90-1, 92-1, 94-1, 96-1, 97-1.	Young, W.C. -----	93-4, 96-13, 97-4.
Weissmuller, J.J. -----	97-3, 97-23.	Z	
Welsh, K.W. -----	76-5, 77-2, 77-7, 77-13, 77-14, 78-17, 78-22, 78-28, 78-29, 78-41.	Zeiner, A.R. -----	72-8.
Wentz, A.E. -----	64-1, 64-6.	Zehner, G.F. -----	83-16.
Wernick, J.S. -----	63-19.	Zelenski, J.D. -----	77-19.
West, G. -----	71-17, 72-5, 72-19, 72-21, 74-10, 75-14.	Ziemnowicz, S.A.R. ----	65-4.
West, R.W. -----	91-1.		
Westura, E.E. -----	68-3.		

PART III: SUBJECT INDEX

Subject and Report Number

Subject and Report Number

Acceleration, angular

- ... adaptation, 66-37, 67-6, 67-7, 67-12, 67-19, 69-20, 74-3.
- ... antinotion sickness drugs effects, 81-16, 82-19.
- ... alcohol effects, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34, 95-3.
- ... arousal effects on nystagmus, 62-17.
- ... arousal effects on vestibular response, 63-29.
- ... dextroamphetamine effects on performance, 73-17, 76-12.
- ... nystagmus after caloric habituation, 63-14, 64-14, 65-18, 67-2.
- ... nystagmus after rotation habituation, 63-13, 65-24, 68-2.
- ... rotation device, 64-15.
- ... secobarbital effects on performance, 73-17.
- ... sleep loss effects on performance, 76-12, 86-9.

Acceleration, linear (see also Deceleration)

- ... bibliography, 63-30.

Accidents

- ... age of pilots, 77-10.
- ... agricultural aircraft, 66-27, 66-30, 72-15, 78-31, 80-3.
- ... alcohol involved, 66-29, 68-16, 78-31, 80-4, 92-24.
- ... analyses of injuries, 70-16, 71-3, 72-15, 81-10, 82-7.
- ... bloodborne pathogens, 97-21.
- ... cabin injuries, 79-23, 82-8.
- ... carbon monoxide levels without fire, 80-11.
- ... causes, 66-8, 66-27, 66-29, 67-23, 68-16, 69-2, 70-18, 78-13, 82-15.
- ... cockpit delethalization, 66-3, 66-12, 71-3.
- ... coronary atherosclerosis in pilot fatalities, 80-8, 85-6.
- ... drugs and toxic chemicals as causes, 68-16, 78-31, 85-8, 95-28, 96-17.
- ... evacuation injuries, 79-6, 80-12.
- ... evacuation patterns, 62-9, 65-7, 70-16, 96-18.
- ... experience of pilots, 77-10.
- ... fire, smoke protection, 67-4, 70-16, 70-20, 78-4, 83-10, 85-10.
- ... identification of fatalities, 79-2.
- ... identification of triamterene in blood, 92-23.
- ... in-flight incapacitation, 87-7.
- ... in-flight vertigo and unconsciousness, 63-21.
- ... injuries from seat impacts, 66-18.
- ... injuries in extreme vertical impacts, 62-19.

- ... injuries in rearward-facing seats, 62-7.
- ... instructional flights, 96-3.
- ... investigations, human factors findings, 63-35, 69-18, 72-2, 73-5, 80-6.
- ... lapbelt-restraint injuries to pregnant females, 68-24.
- ... lost/disoriented, 95-1.
- ... occupation of pilots, 77-10.
- ... older pilots, 67-22, 70-18.
- ... padding for crash protection, 66-40.
- ... physician pilots, 66-25, 71-9.
- ... pilots with static physical defects, 76-7, 77-20, 79-19, 81-14, 83-18, 93-11.
- ... post mortem findings, 69-18, 92-23, 92-24, 92-25, 94-14, 95-28, 97-14.
- ... predisposition, 72-2, 73-5, 93-9.
- ... prevention with blind flight instrument, 66-32.
- ... propeller-to-person, 81-15, 93-2.
- ... railroad, 73-1.
- ... seat cushions for flotation, 66-13.
- ... shoulder harnesses to increase survival, 72-3, 83-8, 89-3.
- ... spatial disorientation, 78-13, 95-1, 96-21.
- ... stall warning, 66-31.
- ... suicide, 72-2, 73-5.
- ... survivability of fire/smoke, 95-8.
- ... survivability of free-fall impacts, 63-15.
- ... survivability of water impacts, 65-12, 68-19.
- ... visual acuity of pilots, 75-5, 81-14, 83-18.

Aerial application

- ... accidents, 66-27, 66-30, 68-16, 72-15, 78-31, 80-3.
- ... biochemical effects of lindane and dieldrin, 62-10, 63-4.
- ... chlordimeform toxicity, 77-19.
- ... cholinesterase determination, 67-5.
- ... comparison of serum cholinesterase methods, 70-13, 72-12.
- ... dieldrin effects on liver, 66-5, 66-26.
- ... endrin effects, 66-11, 66-26, 66-34, 70-11.
- ... mechanisms of endrin action, 63-16, 63-26.
- ... organophosphate insecticides effects, 63-24, 69-19, 70-3.
- ... Phosdrin effects on performance, 72-29, 73-3.
- ... Phosdrin effects on vision, 73-4.
- ... storage stability of human blood cholinesterase, 70-4.
- ... toxic hazards, 62-8, 68-16, 78-31.
- ... treatment of methamidophos poisoning, 78-26.

Part III: Subject Index

Subject and Report Number

Aerobatics

- ... blood donation effects, 84-4.
- ... G effects on pilots, 72-28, 82-13.

Age

- ... age 60 rule, 94-20, 94-21, 94-22, 94-23.
- ... air traffic controller health, 65-6, 71-8, 71-19, 72-20.
- ... air traffic controller performance, 61-1, 62-3, 65-21, 67-1, 71-36, 73-7, 84-6, 90-4.
- ... aircraft accident survival, 70-16.
- ... aircraft accidents, pilots involved, 67-22, 70-18, 77-10, 95-11.
- ... alcohol and altitude interaction, 88-2.
- ... alcohol effects on performance, 95-3, 95-7.
- ... aviation personnel, 64-1, 94-20, 94-21, 94-22, 94-23.
- ... binocular fusion time effects, 66-35.
- ... cardiovascular disease and performance, 64-4.
- ... cardiovascular health changes in airmen, 72-26.
- ... cockpit visual problems of senior pilots, 77-2, 77-7, 77-13, 77-14, 78-17.
- ... complex monitoring performance effects, 81-12, 82-16, 83-15, 85-3, 88-2.
- ... index for pilots, 77-6, 78-16, 78-27, 82-18.
- ... pupillary reflex relationship, 65-25.
- ... shift work, 95-19.
- ... sonic boom effects during sleep, 72-19, 72-24, 72-35.
- ... work capacity, 63-18, 63-33.

Air ambulance

- ... cardiopulmonary factors in perinatal air transport, 82-5.
- ... status of civilian air ambulance services, 71-18.

Air bags

- ... restraint tests, 69-3, 69-4.

Air loads

- ... effects on man, 63-9.
- ... small-aircraft decompressions, 67-14.

Air piracy

- ... deterrence, 78-35.

Air traffic control

- ... ability requirements, 92-26.
- ... automation issues, 90-13, 92-31, 94-3, 95-4.
- ... boredom with simulated radar control, 75-8, 80-1.

Subject and Report Number

- ... color highlighting and color deficiency, 92-6.
- ... communications, 96-10, 96-26.
- ... conspicuity of colored and flashing targets, 90-3.
 - target blink amplitudes, 97-10.
- ... density, warnings, and collision avoidance, 73-6.
- ... flight strips, use of, 92-31, 94-3, 95-4, 95-9, 96-5.
- ... information requirements, TRACON, 95-16.
- ... job task taxonomy, 93-1.
- ... memory, 97-22.
- ... noise effects on performance of radar task, 79-24.
- ... ophthalmic requirements, 96-12.
- ... radar performance with and without a sweepline, 79-12.
- ... radar performance with and without computer aiding, 89-1.
- ... radar training facility, 80-5, 80-15, 83-9.
- ... resource management, crew, 95-21.
- ... SATORI, 93-12, 97-13.
- ... selection and supervisory training, 92-16.
- ... situation assessment through re-creation of incidents (SATORI), 93-12.
- ... situation awareness, 94-27, 95-16, 97-13.
- ... simulator for research, 65-31.
- ... systematic air traffic operations research initiative, 97-13.
- ... vigilance at three radar display target densities, 77-18.
- ... vigilance of men and women on simulated radar task, 78-11, 80-17.
- ... visual taskload effects on CFF change during complex monitoring, 85-13.
- ... visual taskload effects on complex monitoring, 88-1, 90-3.
- ... voice communications from, 93-20.

Air traffic controllers

- ... age effects on performance, 61-1, 62-3, 65-21, 67-1, 71-36, 73-7, 81-12, 82-16, 84-6, 90-4, 96-23.
- ... anthropometry, 65-26.
- ... anxiety with training, 89-7, 91-8.
- ... anxiety with workload, 73-15, 80-14, 81-5.
- ... aptitude tests for selection, 65-19, 68-14, 71-28, 71-36, 71-40, 72-18, 89-6, 90-8, 97-15.
- ... attitudes, 74-7, 74-12, 75-3, 79-11, 91-10.
- ... attrition, 72-33, 74-2, 74-7, 75-3.
- ... biochemical stress index, 74-11, 75-7, 77-23, 78-5, 78-40.
- ... biodynamic evaluation, 71-8.
- ... biographical factors associated with training success, 83-6, 84-6, 90-4, 94-13.
- ... biomedical survey, 65-5, 65-6.

Subject and Report Number

- ... color perception and job performance, 83-11, 90-9, 92-6, 92-28, 92-29, 96-22.
- ... color vision tests, 85-7, 90-9, 92-28, 92-29, 95-13, 96-22.
- ... Composite Mood Adjective Check Lists to measure fatigue, 71-21.
- ... disease incidence and prevalence, 78-21, 84-3.
- ... education as selection factor, 76-6, 90-4.
- ... experience as selection criterion, 63-31, 71-36, 74-8.
- ... flight progress strips, use of, 92-31, 94-3, 95-4, 95-9, 96-5.
- ... flight service station training, 86-6, 91-4.
– organizational climate, 97-12.
- ... headset interference tones, 92-4.
- ... health changes, 71-19, 72-20, 78-39, 84-3.
- ... height and weight data, errors in, 73-10.
- ... incident reporting, 65-10.
- ... memory, 97-22.
- ... military experience and selection, 92-5.
- ... motivational factors, 71-30, 73-2.
- ... Multiple Task Performance Battery for selection, 72-5, 74-10.
- ... occupational vision, 96-12, 96-27.
- ... performance and personality factors, 70-14, 93-4, 94-13.
- ... performance evaluation, 61-1, 65-22, 73-7, 93-12.
- ... performance on radar monitoring tasks, 82-1, 83-13, 86-4, 88-1, 88-4, 90-3, 94-26, 95-23, 97-10.
- ... physiological responses, 71-2, 73-21, 73-22, 74-11, 76-13, 77-23, 82-17.
- ... pilot satisfaction with services, 90-6.
- ... presbyopic, 96-12, 96-27.
- ... psychological testing, 61-1, 62-2, 80-14, 81-5, 92-30, 97-17.
- ... selection, 62-2, 72-33, 74-8, 76-6, 77-25, 78-7, 78-36, 79-3, 79-14, 79-21, 80-7, 80-15, 80-17, 82-11, 83-6, 84-2, 84-6, 88-3, 89-6, 89-7, 90-4, 90-8, 90-13, 91-4, 91-8, 91-9, 91-18, 92-5, 92-26, 94-4, 94-8, 96-6, 96-13, 97-4, 97-15, 97-17, 97-19.
- ... sex differences in selection, training, and attrition, 72-22, 74-2, 74-7, 75-3, 96-13.
- ... shift rotation patterns, effects, 73-22, 75-7, 77-5, 85-2, 86-2, 95-12, 95-19, 96-23.
- ... Sixteen Personality Factor test, air traffic controllers, 97-17.
- ... sleep patterns, 77-5, 95-12, 95-19.
- ... symptoms reported, 61-1.
- ... training, 78-10, 79-3, 79-18, 80-5, 80-15, 82-2, 83-9, 88-3, 89-6, 89-7, 90-4, 90-8, 91-4, 94-9, 94-13, 95-4, 96-6.

Subject and Report Number

- ... voice communications, 93-20, 95-15.

Air transportation

- ... animals, 77-8, 81-11, 84-5.
- ... infectious disease substances, 95-29.
- ... medical kits, 91-2, 91-3, 97-1.
- ... medical and psychological aspects, 71-10.
- ... of high risk pregnant women and neonates, 82-5.
- ... standards for advanced systems, 71-33.
- ... wheel-well stowaways, 96-25.

Aircraft

- ... accident causes, 66-8, 66-25, 66-27, 66-29, 66-30, 67-23, 68-16, 69-2, 69-18, 71-9, 72-2, 73-5, 78-13, 78-31, 80-4, 82-15, 89-3.
- ... accident investigation, 62-7, 62-9, 63-21, 63-35, 67-22, 69-18, 72-2, 73-5, 79-2, 79-6, 80-3, 80-6, 80-11, 81-10, 82-7, 83-8, 85-8, 97-21.
- ... aging and maintenance, 92-3.
- ... attitude indicators, 73-9.
- ... aural glide slope cues for instrument approaches, 71-24.
- ... biocidal fuel additive, 67-21.
- ... cabin safety data bank, 79-23, 82-8.
- ... cabin safety subject index, 84-1, 85-1.
- ... cargo compartment environment, 81-11.
- ... checklists, 91-7.
- ... cockpit delethalization, 66-3, 66-12, 71-3, 72-6, 72-7, 72-15.
- ... cockpit visual problems, 77-2, 77-7, 77-13, 77-14, 78-17.
- ... communication in light aircraft, 72-31.
- ... control forces and female pilots, 72-27, 73-23.
- ... crew smoke-protective devices, 76-5, 78-4, 83-14, 89-5, 89-8, 89-11.
- ... decompression hazards, 67-14, 70-12.
- ... design changes to reduce injuries, 71-3, 72-7, 83-8.
- ... ditching studies, 78-1, 91-6.
- ... evacuation, 62-9, 65-7, 66-42, 70-16, 70-19, 72-30, 77-11, 78-3, 78-23, 79-5, 79-6, 80-12, 81-7, 89-5, 89-12, 92-27, 95-22, 95-25, 96-18.
- ... evacuation models, 94-11, 97-20.
- ... fire, smoke protection after accidents, 67-4, 70-16, 70-20, 78-4, 83-10, 85-10, 89-5, 89-8, 89-11, 89-12.
- ... fires, toxicity of combustion products, 71-41, 77-9, 85-5, 86-1, 86-3, 86-5, 89-4, 91-17, 95-8.
- ... flight inspection, evaluation, 95-18.
- ... flight manuals, 91-7.
- ... flight training devices, 94-25, 95-6.
- ... head impact kinematics, 92-20.

Part III: Subject Index

Subject and Report Number

- ... inspection, 89-9, 94-12, 95-14.
- ... instrument display, 75-12.
- ... interior wall padding and neck injury potential, 93-14.
- ... landing, simulated night approaches, 77-12, 78-15, 79-4, 81-6.
- ... maintenance, 89-9, 90-14, 91-16, 92-3, 93-5, 93-15, 94-12, 95-14, 95-31, 96-2.
- ... neck injury potential, 93-14.
- ... noise effects measurement, 71-1, 72-32.
- ... noise effects on birds, 62-4.
- ... noise levels, 68-21, 68-25, 70-6.
- ... nongyropsopic blind flight instrument, 66-32.
- ... oxygen system design, 78-9.
- ... ozone concentrations and effects, 79-20, 80-9, 89-13.
- ... padding for crash protection, 66-40.
- ... propeller paint schemes conspicuity, 78-29.
- ... radioactive material shipments, 82-12.
- ... readability of emergency signs in smoke, 79-22.
- ... restraint installation, 66-33, 67-13, 72-15.
- ... restraint system evaluation, 69-3, 69-4, 69-5, 71-12, 72-3, 72-6, 78-6, 78-12, 78-24, 79-17, 80-3, 81-10, 82-7, 94-19, 95-2, 95-30.
- ... seat cushion flotation, 66-13.
- ... seat evaluation, 78-6, 78-24, 79-17, 80-3, 81-10, 82-7, 83-3, 90-11.
- ... seat impact injuries, 66-18, 72-15, 89-3.
- ... simulator operation using drugs, 64-18.
- ... SST anticollision lights, 70-9, 70-15, 71-42.
- ... stall warning device, 66-31.
- ... standards for advanced aerospace systems, 71-33.
- ... sunscreen-treated windows, 78-28.
- ... toxicity of engine oil thermal degradation, 83-12.
- ... wheel-well passengers, 96-25.

Airport

- ... cues for approach and landing, 79-4, 79-25, 81-6, 82-6.
- ... medical services, 65-3, 71-10.

Airway facilities personnel

- ... human factors, 94-5.
- ... job attitudes, 77-21, 79-11, 83-7.

Airway Science Curriculum Demonstration Project

- ... air traffic control specialists, 91-18.
- ... initial evaluation, 88-5.

Airworthiness Inspectors

- ... assessment of job performance, 87-4.

Subject and Report Number

Alcohol

- ... alcoholic airline pilot rehabilitation, 85-12.
- ... altitude effects on blood levels, 70-5.
 - on performance, 68-18, 79-26, 82-3, 85-5, 88-2.
- ... ataxia test battery effects, 79-9.
- ... complex performance effects, 69-14, 79-7, 85-5, 88-2, 94-24, 95-7.
- ... congener effects, 79-7, 79-9.
- ... detection methods, 91-12.
- ... disorientation-related responses, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.
- ... findings in general aviation accidents, 66-27, 66-29, 68-16, 69-2, 78-31, 80-4, 95-28.
- ... hangover effects, 79-7, 79-26.
- ... instrument flight performance effects, 72-4.
- ... low doses and performance, 94-24, 95-3, 95-7.
- ... postmortem in fatal accidents, 92-24.
- ... problem solving effects, 72-11.
- ... readiness to perform testing, 93-13, 95-24.
- ... tests for alcoholism after intoxication in non-alcoholics, 83-2.
- ... visual functions effects, 78-2, 79-15.

Altitude

- ... alcohol effects, 68-18, 79-26, 82-3, 85-5, 88-2.
- ... antihistamine effects on performance, 68-15.
- ... antihistamine-decongestant preparations effects, 78-19, 78-20.
- ... blood alcohol levels effects, 70-5.
- ... blood donation effects on tolerance, 84-4.
- ... chamber reactions, 77-4, 90-12.
- ... civilian training need, 91-13.
- ... cosmic radiation at SST altitudes, 71-26, 80-2.
- ... decompression hazards, 67-14, 70-12.
- ... decompression, performance after, 66-10.
- ... heat effects on performance, 71-17.
- ... human tolerance, 62-6.
- ... marihuana effects on performance, 75-6.
- ... oxygen masks, efficiency of, 62-21, 66-7, 66-9, 66-20, 67-3, 67-9, 72-10, 79-13, 80-18, 85-10, 89-10, 93-6.
- ... oxygen need, 66-28, 78-9.
- ... ozone concentrations and effects, 79-20, 80-9.
- ... penetrating eye injuries effects, 62-12.
- ... performance effects, 66-15, 71-11, 82-3, 82-4, 82-10, 83-15, 85-3, 85-5, 88-2, 97-7, 97-9.
- ... propranolol effects on tolerance, 79-10, 80-10.
- ... smokers, effects on, 97-7.
- ... tolerance after crash diet, 81-2, 81-8.
- ... tolerance of beta blocked hypertensives, 92-19.
- ... tolerance with pulmonary disease, 77-16.
- ... tolerance with sickle cell trait, 76-15, 78-30.

Subject and Report Number

Subject and Report Number

- ... visual fields effects on glaucoma patients and the elderly, 91-1.
- ... work tolerance effects, 63-33, 82-3.
- ... wheel-well stowaways, 96-25.

Animal transportation

- ... Freezing and subfreezing temperature effects on dogs, 87-3.
- ... Heat and humidity effects on dogs, 77-8, 81-11, 84-5, 87-8.

Anthropometry

- ... forensic, 79-2.
- ... adult face, 78-14, 93-10.
- ... adult female, 83-16.
- ... air traffic controllers, 65-26.
- ... center of gravity, 62-14, 65-23, 69-22.
- ... faces of children for oxygen mask design, 66-9.
- ... female crewmember facial anthropometry, 83-14.
- ... flight attendants, 75-2, 75-13.
- ... flight inspection pilots and technicians, 95-18.
- ... head and face of adults, 93-10.
- ... human pelvis, 82-9.
- ... shoulder slope, 65-14.
- ... weight distribution when sitting, 62-1.

Anthropomorphic dummies

- ... criteria for crashworthiness, 96-11.
- ... design, 82-9, 83-16.
- ... evaluation, 78-6, 78-24, 79-17, 83-3.
- ... 3- and 6-year-old dummies, 76-9.
- ... thoracic mass, determination, 96-7.

Anticollision lights

- ... effects of backscatter, 72-8.
- ... exposure effects under simulated IFR conditions, 66-39.
- ... SST, 70-9, 70-15, 71-42.

Aphakia

- ... accident risk assessment, 95-11.
- ... incidence in airmen, 91-14, 92-14.

Arousal

- ... by distracting stimuli, 71-7.
- ... nystagmus effects, 62-17.
- ... simulated radar control task, 75-8, 77-18, 81-12, 88-1.
- ... vestibular responses effects, 63-29.

Attention

- ... anticollision observing responses, 73-6.

- ... auditory distraction effects, 72-14.
- ... conspicuity of flashing and color targets, 90-3.
 - target blink amplitude, 97-10.
- ... personality and physiological correlates, 73-14.
- ... self-estimates of distractibility, 72-25.
- ... simulated radar task, 77-18, 78-11, 79-12, 80-17, 81-12, 82-1, 82-16, 86-4, 88-1, 89-1.
- ... switching in readiness to perform, 95-24.
- ... time-sharing ability, 76-1, 78-33.
- ... visual taskload effects on CFF change during complex monitoring, 85-13.
- ... visual taskload effects on complex monitoring, 88-1, 90-3, 94-26, 95-23, 96-9.

Audiology

- ... advanced and ATC selection, 90-13.
- ... auditory fatigue, 63-19, 65-1, 65-2.
- ... binaural beat perception, 63-17.
- ... cockpit noise intensities, 68-21, 68-25.
- ... ear-protector ratings, 73-20, 75-11.
- ... earphone transient response, 63-7.
- ... interaural intensity difference limen, 67-10.
- ... noise audiometry, 71-1.
- ... noise effects on aircrew personnel, 72-32.
- ... speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.
- ... table of intensity increments, 66-4.
- ... temporary threshold shift, 79-16.

Automation

- ... advanced and ATCS selection, 90-13, 92-26, 97-19.
- ... boredom and monotony as stressors, 80-1.
- ... complacency on radar monitoring task, 82-1.
- ... complex monitoring performance predictors, 80-17, 86-4.
- ... flight progress strips, 92-31, 94-3, 95-8, 96-5.
- ... general aviation, pilot responses to autopilot malfunctions, 97-24.
- ... physiological stress in controllers, 82-17.
- ... radar performance with and without computer aiding, 89-1.
- ... recovery of radar monitoring performance following startle, 83-13.
- ... visual taskload effects on CFF change during complex monitoring, 85-13.
- ... visual taskload effects on complex monitoring, 88-1.

Aviation maintenance

- ... human factors, 89-9, 90-14, 91-16, 92-3, 93-5, 93-15, 94-12, 95-31, 96-2.

Part III: Subject Index

Subject and Report Number

Aviation medical examiners

- ... and drug testing program, 92-15.
- ... performance, 84-7.

Ballistocardiography

- ... bibliography, 65-15.
- ... research and current status, 64-12.
- ... stroke volume relationship, 65-8.

Behavior

- ... coronary-prone Type A and complex monitoring performance, 86-4.
- ... Type A and ATCS training performance, 94-13.

Benzodiazepines

- ... analysis in forensic urine samples, 96-14.

Birds

- ... possible sonotropic effects of a commercial air transport, 62-4.

Blood

- ... altitude effects on alcohol levels, 70-5.
- ... autoregulation of renal flow, 63-32.
- ... cerebrovascular disease detection, 65-4.
- ... cholinesterase measurement, 67-5.
- ... clot dissolution therapy, 64-5.
- ... comparison of serum cholinesterase methods, 70-13, 72-12.
- ... cyanide, 94-7.
- ... donation effects, 84-4.
- ... erythrocyte volume spectra, 63-8.
- ... hemoconcentration with endrin poisoning, 66-11.
- ... oxygen saturation, 66-7, 66-15, 66-20, 67-3, 67-9.
- ... phospholipids, 71-2, 73-21, 73-22.
- ... plasma catecholamine determination, 66-6, 71-15.
- ... pressure changes in ATC population, 71-19, 72-20, 78-39, 84-3.
- ... pressure changes in third-class certificate holders, 72-26.
- ... pressure levels of active pilots, 84-3.
- ... pressures by rapid indirect method, 70-21.
- ... pulmonary flow with glyceryl trinitrate, 64-11.
- ... pulmonary thromboembolism, 64-7.
- ... sickle cell disease and trait, 76-15, 78-30, 80-20.
- ... storage stability of human blood cholinesterases, 70-4.
- ... tests for alcohol abuse, 83-2.

Subject and Report Number

Cabin safety

- ... cabin simulator, experimental, 97-18.
- ... computer evacuation models, 94-11, 97-20.
- ... data bank, 79-23, 82-8.
- ... subject index, 84-1, 85-1.

Calcium

- ... activity and circadian rhythm in excretion, 68-4.

Caloric irrigation

- ... after habituation to rotation, 63-13.
- ... alcohol effect on response, 71-6.
- ... arousal effects on nystagmus, 62-17.
- ... elicitation of secondary nystagmus, 63-3.
- ... nystagmus after habituation, 63-14, 64-14, 65-19, 67-2.

Canes

- ... used by blind passengers, 80-12.

Carbon monoxide

- ... as cause of aircraft accidents, 68-16, 69-2, 82-15.
- ... levels in aircraft accident victims, 70-16, 80-11.
- ... relative toxic hazards of materials, 77-9.
- ... times to incapacitation of rats, 89-4, 93-7.

Cardiovascular

- ... age and physical training effects, 63-18, 64-1.
- ... antihistamine-decongestant preparations effects, 78-20.
- ... ballistocardiographic research, 64-12, 65-8, 65-15.
- ... blood donation effects, 84-4.
- ... blood pressure measurement, 66-16, 66-36, 70-21, 84-3.
- ... cerebrovascular disease detection, 65-4.
- ... changes in ATC population, 71-19, 72-20, 78-39, 84-3.
- ... changes in third-class certificate holders, 72-26.
- ... coronary heart disease detection, 74-6, 78-38.
- ... dextroamphetamine effects on heart rates, 75-14.
- ... endrin effects, 63-16, 66-11.
- ... evaluation with treadmill and step test, 64-3.
- ... function in aviation stress protocol, 78-5.
- ... glyceryl trinitrate effects on pulmonary vasculature, 64-11.
- ... health, age, and performance, 64-4.
- ... heart rates during instrument approaches, 70-7, 71-24, 75-12.
- ... heart rates in air tanker pilots, 68-26.
- ... heart rates in ATCSs, 71-2, 73-21, 73-22, 74-11.
- ... heart rates in student pilots, 67-15, 69-12.

Subject and Report Number

Subject and Report Number

... heart rates with complex vigilance tasks, 69-8, 75-8, 86-4.
 ... heart rates with simulated sonic booms, 71-29.
 ... in-flight incapacitation, 87-7.
 ... physiological responses on cross-country flights, 71-23.
 ... post mortem findings after accidents, 69-18, 80-8, 85-6.
 ... prediction of heart rates under stress, 69-7.
 ... prevalence among civil airmen, 89-2.
 ... problems associated with aviation safety, 78-38.
 ... recognition of posterior infarction, 64-19.
 ... rehabilitation after infarction, 64-2, 66-17, 66-21.
 ... responses to hyperpyrexia, 64-8.
 ... risk factors, 90-7.
 ... startle effects on heart rates, 69-21.
 ... stress effects on heart rates, 68-17.
 ... thromboembolic disease treatment, 64-5.
 ... transducer for heart sounds, 68-3.

Case reports

... in-flight loss of consciousness, 63-21.
 ... insecticide exposure, 63-24.
 ... physical conditioning after infarction, 66-21.
 ... pulmonary thromboembolism, 64-7.
 ... quinine elimination, 94-16.
 ... rheoencephalography in cerebrovascular disease detection, 65-4.
 ... seizures in flight, 64-6.

Center of gravity

... adults, 62-14.
 ... children, 65-23.
 ... infants, 69-22.

Certification, aeromedical

... airmen attrition, 72-13, 73-8.
 ... alcoholic airline pilots rehabilitation, 85-12.
 ... analysis of denial actions, 68-9, 74-5, 76-10, 78-25, 80-19, 83-5, 84-9, 85-9, 86-7, 90-5.
 ... aphakia, 91-14, 92-14, 93-11, 95-11.
 ... aviation medical examiner performance, 84-7.
 ... contact lens use, 90-10.
 ... disease prevalence and incidence, 73-8, 81-9, 84-8, 89-2, 90-7.
 ... errors in height and weight data, 73-10.
 ... estimate of active airmen, 68-5.
 ... exams of first-class certificate holders by senior AMEs, 71-38.
 ... glare, 94-15.
 ... glaucoma, 91-1.
 ... intraocular implants, 92-14, 93-11.
 ... procedures, 71-25, 82-14.

... sickle cell disease and trait, 76-15, 80-20.
 ... tests for alcohol abuse, 83-2.

Charts

... readability, 77-13, 78-17.

Circadian periodicity

... bibliography of shift work research, 83-17.
 ... disruption of intercontinental flights, 65-16, 65-28, 65-29, 65-30, 68-8, 69-17.
 ... effects of shifts in wake-sleep cycle, 75-10, 76-11, 86-2.
 ... excretion of magnesium and calcium, 68-4.
 ... rotating shift work, 86-2.

Clothing

... effects on drag forces, 63-9.

Cold

... effect on dogs shipped by air transport, 87-3.
 ... effect on manual performance, 68-13.
 ... skin temperature to predict tolerance, 71-4.
 ... thermal balance, 66-23.
 ... thermal protection by life preservers, 85-11.

Color

... conspicuity of radar targets, 90-3.
 ... highlighting targets, 92-6.

Color vision

... air traffic control specialists performance, 83-11.
 ... clinical tests as predictors of practical tests, 73-18, 75-1, 92-28, 92-29, 95-13.
 ... defective and color highlighting, 92-6.
 ... defective and signal lights, recognition, 71-27, 71-32.
 ... impairment by sunscreen materials, 78-28.
 ... tests, 67-8, 85-7, 90-9, 93-17, 95-13, 96-22.
 ... test illuminant, 93-16.
 ... X-Chrom lens for improving, 78-22.

Communication

... ATC/pilot voice, 93-20, 95-15, 96-26.
 ... binaural beat perception, 63-17.
 ... earphone response, 63-7.
 ... in light aircraft, 72-31.
 ... interaural intensity difference limen, 67-10.
 ... role in aircraft maintenance and inspection, 90-10.
 ... role in promoting change within Airway Facilities Service, 83-7.
 ... speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.

Part III: Subject Index

Subject and Report Number

- ... table of intensity increments, 66-4.
- ... tactile, 62-11, 62-16.
- ... voice, methods and metrics, 96-10, 96-20.

Contact lenses

- ... epidemiological study of certification, 90-10.

Cosmic radiation

- ... air carrier crew, exposure of, 80-21, 92-2.

Crashworthiness

- ... dummy criteria, 96-11.
- ... energy-absorbing seat effectiveness, 83-3, 90-11.
- ... head impact and interior walls, 92-20, 93-14.
- ... occupant survival in general aviation accidents, 81-10, 82-7, 83-8.

Deceleration

- ... bibliography, 63-30.
- ... cockpit delethalization, 66-3, 66-12, 72-6, 72-7, 72-15, 81-10.
- ... head impacts while wearing restraint systems, 72-6.
- ... human tolerance, 62-6, 83-3.
- ... illumination effects during angular deceleration, 68-28.
- ... impact injuries in pregnancy, 68-6, 68-24.
- ... kinematics of human body, 62-13.
- ... padding for crash protection, 66-40.
- ... rearward-facing seats, 69-13.
- ... restraint systems, 67-13, 69-3, 69-4, 69-5, 69-13, 72-3, 72-15, 80-3, 81-10, 82-7, 83-8.
- ... seat impact injuries, 66-18, 72-15, 81-10, 82-7.
- ... side-facing seats, 69-13.
- ... survival of extreme vertical impacts, 62-19.
- ... survival of free-fall impacts, 63-15.
- ... survival of water impacts, 65-12.
- ... tolerances of face, 65-20.

Decision-making

- ... employee participation in, 91-10, 92-13, 92-17.
- ... "expert" pilot model, 97-6.
- ... personal minimums tool, 96-19.
- ... training in pilots, 87-6, 96-19.
- ... weather information, use of, 97-3, 97-23.

Decompression

- ... effects on performance, 66-10.
- ... effects of propranolol on TUF, 79-10, 80-10.
- ... need for civilian training, 91-13.
- ... oxygen mask evaluation, 66-20, 67-3, 72-10, 79-13, 80-18, 96-4.

Subject and Report Number

- ... pressurized small aircraft, 67-14.
- ... altitude chamber experience, 77-4, 90-12.
- ... tolerable profiles for SST, 70-12.

Diet

- ... human tolerance, effects, 81-2.
- ... performance, effects, 81-8.

Depth perception

- ... general, 62-15, 63-10, 63-20, 63-28, 64-13, 65-11, 65-32, 66-22, 66-24, 67-18, 67-20.
- ... light adaptation device, 66-38.

Disorientation

- ... accidents due to, 78-13, 95-1, 96-21.
- ... adaptation, 65-18, 65-24, 66-37, 67-2, 67-6, 67-7, 67-12, 67-19, 68-2, 68-28, 69-20, 74-3, 71-39, 72-34.
- ... alcohol effects, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.
- ... familiarization techniques, 70-17, 77-24.
- ... visually induced, 69-23, 70-2, 71-22.

Distraction

- ... auditory distraction and performance, 72-14.
- ... susceptibility, measurement of, 72-25.

Ditching

- ... flotation and survival equipment studies, 78-1, 85-11.
- ... infant flotation device, 71-37, 91-6.
- ... seat cushion flotation, 66-13, 95-20.

Drugs

- ... aircraft accidents, role of, 68-16, 78-31, 85-8, 92-23, 94-14, 95-28, 96-14, 97-14.
- ... antihistamine effects, at altitude, 68-15, 78-19, 78-20.
 - on shiftwork performance, 97-25.
- ... antinotion sickness, 81-16, 82-19.
- ... atropine and performance, 93-19.
- ... benzodiazepines, forensic analysis, 96-14.
- ... atropine and Phosdrin effects on vision, 73-4.
- ... chlordimeform toxicity, 77-19.
- ... complex performance effects, 69-9.
- ... detection and identification, 92-25, 96-17, 97-14.
- ... dextroamphetamine effects during angular acceleration, 73-17, 76-12.
- ... dextroamphetamine effects during sleep loss, 75-14.
- ... glyceryl trinitrate effects on pulmonary vasculature, 64-11.

Subject and Report Number

Subject and Report Number

... lithium carbonate effects on performance, 77-17.
 ... marihuana, 73-12, 85-8.
 ... marihuana and altitude effects on performance, 75-6.
 ... methamidophos poisoning, 78-26.
 ... orthostatic tolerance effects, 63-34.
 ... performance effects in aircraft simulator, 64-18.
 ... propranolol effects on altitude tolerance, 79-10, 80-10.
 ... readiness to perform testing, 93-13.
 ... secobarbital effects during angular acceleration, 73-17.
 ... selegiline metabolites, 97-14.
 ... testing programs and AMEs, 92-15.
 ... tranquilizer effects on body temperature, 63-23, 66-14.
 ... triamterene in fatal accident, 92-13.
 ... use in fatigue, 63-12, 75-14.
 ... use of a tranquilizer in flight training, 69-12.
 ... visual reflexes effects, 79-15.
 ... work capacity effects, 63-34.

Earphones

... headset interference tones, 92-4.
 ... transient response, 63-7.

Earplugs

... ratings, 73-20, 75-11.

Education

... aviation medical examiners, 84-7.
 ... factor in air traffic controller selection, 76-6, 96-6.
 ... factor in air traffic controller success, 76-6, 83-6.

Electrocardiogram

... amplitude/frequency analysis, 74-6.
 ... diagnosis of posterior infarction, 64-19.

Energy

... cost of treadmill work, 62-5.
 ... energy-absorbing seat effectiveness, 83-3, 90-11.

Environment

... cargo compartments, 81-11.
 ... effects of mass air transportation, 71-10.

Equipment

... air traffic situation assessment (SATORI), 93-12.
 ... alcohol detection, 91-12.
 ... anthropometry in design, 65-26, 75-2.

... anticollision lights, 66-39, 70-9, 70-15, 71-42, 72-8.
 ... ARTS-III effects on controller stress, 76-13.
 ... blood pressure measurement, 66-16, 70-21.
 ... compact instrument display, 75-12.
 ... crew smoke-protective devices, 76-5, 78-4, 78-41, 83-14, 89-8, 89-11.
 ... disorientation familiarization, 70-17.
 ... Emergency Escape Breathing Device, 92-18.
 ... emergency lighting, 66-42, 79-22, 80-13, 81-7.
 ... evaporative water loss, 67-17.
 ... fire, smoke protection, 67-4, 70-20, 78-4, 83-10, 85-10, 89-5, 89-8, 89-11, 89-12.
 ... flotation and survival, 78-1, 85-11.
 ... infant flotation device, 71-37, 91-6.
 ... instrument readability by senior pilots, 77-2, 77-7.
 ... lapbelt restraint in pregnancy, 68-24.
 ... light adaptation device, 66-38.
 ... medical kits, 91-2, 91-3.
 ... nongyroscopic blind flight instrument, 66-32.
 ... oxygen, 62-21, 66-7, 66-9, 66-10, 66-20, 67-3, 67-9, 72-10, 78-4, 79-13, 80-18, 83-10, 85-10, 89-5, 89-10, 93-6, 95-17, 96-4.
 ... padding for crash protection, 66-40.
 ... performance testing, 66-19.
 ... protective for aircraft accidents, 65-7, 66-3, 66-12.
 ... restraint systems, 67-13, 69-3, 69-4, 69-5, 72-3, 72-6, 83-8, 94-19.
 ... seat cushion flotation, 66-13.
 ... secondary container alternative for transportation of infectious substances, 95-29.
 ... stall warning, 66-31.
 ... transducer, 68-3.
 ... upper torso restraint acceptance, 71-12.

Evacuation

... acoustic signals for exit location, 79-5.
 ... air carrier accidents, 62-9, 65-7, 70-16.
 ... bibliography, 63-30.
 ... cabin simulator, experimental, 97-18.
 ... computer models, 94-11.
 ... Emergency Escape Breathing Device, 92-18.
 ... escape slides and platforms, 96-18.
 ... handicapped passengers, 77-11.
 ... history of smoke/fume protective breathing equipment, 87-5.
 ... injuries, 79-6, 79-23, 82-8.
 ... motivation of passengers, 96-18.
 ... passenger flow rates between compartments, 78-3.
 ... passenger workload and protective breathing, 87-2, 89-5.

Part III: Subject Index

Subject and Report Number

- ... railroad accident, 73-1.
- ... readability of emergency signs in smoke, 79-22, 80-13, 81-7.
- ... seating configuration, 89-14, 92-27, 95-22.
- ... simulation by computer models, 72-30, 78-23, 94-11, 97-20.
 - experimental cabin, 97-18.
- ... SST mockup tests, 70-19.
- ... tests using L-1649, 66-42.
- ... tests using protective smoke hood, 70-20, 89-12.
- ... type III exits, 92-27, 95-22, 95-25.

Exercise

- ... auscultatory and intra-aortic pressures, 66-36.
- ... human tolerances, effects on, 82-4, 82-10.
- ... magnesium and calcium excretion, effects on, 68-4.
- ... myocardial infarction, before and after, 64-2.
- ... myocardial infarction, effects after, 66-17, 66-21.
- ... tolerance at altitude, 63-33.
- ... treadmill work, energy cost of, 62-5.

Experience

- ... air traffic controller selection, 63-31, 74-8, 78-7, 83-6.
- ... correlation with ATCS age and performance, 67-1, 73-7.
- ... pilots in general aviation accidents, 77-10.
- ... relation to reported symptoms of ATCSs, 65-6.

Eye

- ... age and binocular fusion time, 66-35.
- ... airman visual acuity, midair collisions, 75-5.
- ... alcohol effects on eye movements, 72-34.
- ... anticollision lights, 66-39, 70-9, 70-15, 71-42, 72-8.
- ... aphakia, prevalence in civil airmen, 91-14, 92-14, 93-11.
- ... bifocal effects on radar monitoring, 82-16.
- ... contact lenses, 90-10.
- ... cockpit visual problems of senior pilots, 77-2, 77-7, 77-13, 77-14, 78-17.
- ... color vision and signal lights, 71-27, 71-32, 73-18, 75-1, 78-22, 93-17.
- ... color vision tests for ATCS, 83-11, 85-7, 90-9, 92-29.
- ... equidistance tendency, 65-11.
- ... fatigue effects on binocular fusion time, 69-1.
- ... glare tests, 94-15.
- ... glaucoma, visual field and altitude, 91-1.
- ... lateral movements in student pilots, 67-15.

Subject and Report Number

- ... movements during simulated air traffic control, 94-26, 95-23, 96-9.
- ... neural control of ciliary muscle, 63-5.
- ... occupational vision, en route centers, 96-12, 96-27.
- ... optokinetic stimulation, 70-2, 70-10, 71-22.
- ... pathology in accident airmen, 81-14, 83-18.
- ... penetrating injuries, 62-12.
- ... perception of depth, 63-10, 63-28, 67-20.
- ... perception of size and distance, 62-15, 64-13, 66-22, 66-24, 67-18.
- ... perception of spatial extent, 63-20.
- ... photic stimulation, 66-39.
- ... propeller paint schemes conspicuity, 78-29.
- ... pupillary movement with fatigue, 65-9.
- ... pupillary reflex with age, 65-25.
- ... reaction time, flash luminance and duration, 67-24.
- ... senior pilots, cockpit visual problems, 77-2, 77-7, 77-13, 77-14, 78-17.
- ... simulation of objects moving in depth, 65-32.
- ... spiral aftereffect test, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
- ... tests for color vision, 67-8, 83-11, 93-16, 93-17.
- ... two-flash thresholds, 68-20, 70-15, 71-42.
- ... vision through sunscreen materials, 78-28.
- ... visually induced disorientation, 69-23, 70-2, 71-22.
- ... X-Chrom lens for improving color vision, 78-22.

Fatigue

- ... air tanker pilots, 68-26.
- ... antihistamine-decongestant preparations effects, 78-20.
- ... auditory, 63-19, 65-1, 65-2.
- ... aviation activities, 65-13, 81-13.
- ... binocular fusion time effects, 69-1.
- ... blink rate measures, 94-17, 94-26.
- ... Composite Mood Adjective Check Lists to measure in ATCSs, 71-21.
- ... 8- vs. 10-hr. work schedules, 95-32.
- ... intercontinental jet flights, 65-16, 65-28, 65-29, 65-30, 68-8, 69-17.
- ... mitigation with Spartase, 63-12.
- ... plasma catecholamine determination, 66-6, 71-15.
- ... pupillary movement with, 65-9.
- ... readiness to perform testing, 93-13, 95-24.
- ... rotating shift work, 86-2.
- ... shift effects on wake-sleep cycle, 75-10, 76-11, 85-2, 95-12, 95-19.
- ... sleep deprivation effects, 70-8, 75-14, 85-3.
- ... tolerance after crash diet, 81-2.

Subject and Report Number

Subject and Report Number

- ... tolerance after exercise, 82-4, 82-10.
- ... visual, during vigilance task, 94-26, 96-9.
- ... visual taskload effects on CFF change during complex monitoring, 85-13.

Federal Air Surgeon

- ... review of 1966 program, 67-25.
- ... review of 1976 program, 76-8.

Fire

- ... crew smoke-protective devices, 76-5, 78-4, 78-14, 78-41, 83-14.
- ... effects in air carrier accidents, 62-9, 65-7, 70-16.
- ... flammability of toiletries in oxygen, 63-27.
- ... passenger protective breathing devices, 67-4, 70-20, 83-10, 85-10, 87-2, 87-5, 89-5, 89-8, 89-11, 89-12.
- ... smoke effects on identifying emergency signs, 79-22, 80-13, 81-7.
- ... toxicity of products in aircraft fires, 71-41, 77-9, 85-5, 86-1, 86-3, 86-5, 89-4, 90-15, 90-16.
- ... toxicity of seat fire-blocking materials, 86-1.

Flight attendants

- ... anthropometry, 75-2.
- ... functional strength, 75-13.
- ... injuries, cabin safety data bank, 79-23, 82-8.
- ... ozone effects, 79-20.

Flotation devices

- ... infant, 91-6.
- ... methods of seat cushion use, 95-20.

Fuel

- ... biocidal additive, 67-21.

G forces

- ... aerobatics effects, 72-28, 82-13.
- ... simulation with lower body pressure box, 79-8, 82-3, 82-4.
- ... tolerance after crash diet, 81-2.
- ... tolerance effects of antihistamine-decongestant preparations, 78-20.

Galactic cosmic radiation

- ... effect on air carrier crewmembers, 92-2.

Handicapped persons

- ... blind passengers, 80-12.
- ... pilot positions in radar training, 80-5.

Hearing

- ... acoustic signals for emergency evacuation, 79-5.
- ... auditory fatigue, 63-19, 65-1, 65-2.
- ... binaural beat perception, 63-17.
- ... cockpit noise intensities, 68-21, 68-25.
- ... conservation with earplugs, 73-20, 75-11.
- ... earphone transient response, 63-7.
- ... headset interference tones, 92-4.
- ... interaural intensity difference limen, 67-10.
- ... noise audiometry, 71-1.
- ... noise effects on aircrew personnel, 72-32.
- ... speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.
- ... table of intensity increments, 66-4.
- ... temporary threshold shift, 79-16, 92-4.

Heat

- ... altitude effects on performance, 71-17.
- ... complex performance effects, 69-10, 72-17.
- ... dogs shipped by air transport, 77-8, 81-11, 84-5, 87-8.
- ... human tolerances, 70-22, 71-4.
- ... maintenance of thermal balance, 66-23.
- ... manual performance effects, 68-13.
- ... measurement of evaporative water loss, 63-25.
- ... tolerance limits for rats and mice, 86-8.
- ... tranquilizer effects on loss and conservation, 63-23, 66-14.

Hijacking

- ... deterrence, 78-35.

Human

- ... adult female anthropometry, 83-16.
- ... angle of shoulder slope, 65-14.
- ... body center of gravity, 62-14.
- ... body kinematics on deceleration, 62-13.
- ... center of gravity, 62-14, 65-23, 69-22.
- ... child body models, 76-9.
- ... mass distribution of children, 76-9.
- ... pelvis spatial geometry, 82-9.
- ... physical fitness testing, 63-6.
- ... responses to hyperpyrexia, 64-8.
- ... survivability of free-fall impacts, 63-15, 65-12, 68-19.
- ... tolerances, 62-6, 71-3, 71-4, 71-13, 81-2, 82-3, 82-4, 82-10.
- ... tolerances to facial impact, 65-20, 66-12, 66-40.
- ... tolerances to heat, 70-22, 71-4.

Part III: Subject Index

Subject and Report Number

Human factors (also see: Performance)

- ... assessment of complex performance, 69-6, 69-16.
- ... auditory startle responses, 88-4.
- ... aviation maintenance, 89-9, 90-14, 91-16, 92-3, 93-5, 93-15, 94-12, 95-14, 95-31, 96-2.
- ... aviation safety, 63-35, 66-8, 66-25, 66-27, 70-18, 71-9, 71-10, 72-2, 73-5, 80-6, 92-3, 94-5, 94-27.
- ... crew resource management, FAA aircrews, 96-24.
- ... decision making, preflight, 96-19, 97-3, 97-23.
- ... emergency evacuation, 65-7, 70-16, 95-25, 96-18, 94-11, 97-20.
- ... flight progress strips, 95-4, 95-9, 96-5.
- ... flight simulator research, 96-15, 96-16, 97-9, 97-24.
- ... job task taxonomy, 93-1, 95-16.
- ... operational demonstration of flight inspection aircraft, 95-18.
- ... photic stimulation responses, 66-39.
- ... SATORI, 93-12, 97-13.
- ... severe weather flying, 66-41.
- ... target blink amplitude, attention-getting value, 97-10.
- ... workstation design, flight inspection aircraft, 95-18.

Hydrogen ion concentration

- ... conversion table from pH, 68-23.

Hyperventilation

- ... human tolerances, 62-6.

Hypothermia

- ... passengers, 94-10, 95-20.
- ... wheel-well stowaways, 96-25.

Hypoxia

- ... and beta blocked hypertensives, 92-19.
- ... blood donation effects, 84-4.
- ... civilian training need, 91-13.
- ... human tolerance, 62-6, 63-33.
- ... interaction with marihuana, 75-6.
- ... oxygen need, 66-28.
- ... performance decrement, 66-10, 66-15, 71-11, 71-17, 97-9.
- ... propranolol effects, 79-10, 80-10.
- ... sickle cell trait susceptibility, 76-15, 78-30, 80-20.
- ... visual field and glaucoma, 91-1.
- ... wheel-well stowaways, 96-25.

Subject and Report Number

Identification

- ... sex and race diagnosis from cranial measurements, 79-2.

In-flight health care

- ... medical emergencies, 97-2.
- ... medical kits, 91-2, 91-3, 97-2.

Illusions

- ... spiral aftereffect, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
- ... visual, 70-2, 71-22, 77-12.

Injuries

- ... agricultural aircraft accidents, 72-15, 80-3.
- ... analysis in railroad accident, 73-1.
- ... brain tolerances to concussion, 71-13, 74-4.
- ... cabin safety data bank, 79-23, 82-8.
- ... cockpit delethalization, 66-3, 66-12, 71-3, 72-7, 81-10, 82-7.
- ... correlation with kinematic behavior, 62-13.
- ... criteria for aircraft crashworthiness, 96-11.
- ... decompression of small aircraft, 67-14.
- ... emergency evacuations, 79-6, 79-23, 82-8.
- ... eye, 62-12.
- ... facial tolerances to impacts, 65-20.
- ... head impacts while wearing restraint systems, 72-6, 92-20.
- ... impact in pregnancy, 68-6, 68-24.
- ... in free falls, 63-15.
- ... neck, 93-14.
- ... padding for crash protection, 66-40.
- ... prevention in aircraft accidents, 71-3, 94-19.
- ... produced by restraint systems, 69-5, 89-3.
- ... rearward-facing seats, 62-7, 69-13.
- ... restraint systems to prevent, 67-13, 69-3, 69-4, 69-5, 69-13, 72-3, 82-7, 83-8.
- ... seat impacts, 66-18.
- ... side-facing seats, 69-13.
- ... smoke and fire, 62-9, 70-16.
- ... vertical crash forces, 62-1.
- ... vertical impact in seated position, 62-19.
- ... water impacts, 65-12, 68-19.

Instruments

- ... attitude indicators, 73-9.
- ... compact display, effects on performance, 75-12.
- ... navigational display formats, 96-16.
- ... radiation detection, 71-26.
- ... readability by senior pilots, 77-2, 77-7.

Subject and Report Number

Subject and Report Number

Job attitudes

- ... air traffic controllers, 74-7, 74-12, 75-3, 79-11, 91-10.
- ... Airway Facilities Service, 77-21, 79-11, 83-7.
- ... aviation business operators, 87-4.
- ... burnout, 92-7.
- ... diversity training, 95-10.
- ... exchange ideology, 91-11.
- ... gender, equity, and satisfaction, 92-9.
- ... goal congruence, 92-8.
- ... intent to leave job, 91-15.
- ... organizational politics, perceptions of, 92-10.
- ... participation in decision-making, 92-17.
- ... safety behavior, 97-8.

Judgment

- ... decision-making in pilots, 97-3, 97-23.
- ... training in pilots, 87-6.

Kidney

- ... autoregulation mechanism, 63-32.
- ... effects of acute arterial occlusion, 63-22, 65-27.
- ... effects of increased venous pressure, 62-18, 63-1.
- ... effects of pesticides, 63-26, 66-11.

Lighting

- ... cabin, 79-22, 80-13, 81-7.
- ... cockpit, 77-2, 77-13, 77-14, 78-17.

Magnesium

- ... activity and circadian rhythm in excretion, 68-4.

Management

- ... crew resource, FAA flight crews, 96-24
- ... job task analysis for supervisors, 91-5.
- ... matrix teams, commitment, 93-18.
- ... organizational commitment, 92-21.
- ... training effectiveness, 75-9, 78-32.
- ... training needs, 90-2.
- ... workplace safety behaviors, influence on, 97-8.

Medical kits

- ... used in flight, 91-2, 91-3, 97-2.

Motion sickness

- ... susceptibility, 76-14.
- ... treatment effects, 81-16, 82-19.

Motivation

- ... airway facilities personnel, 77-21.
- ... factors in ATC work, 71-30, 74-12.
- ... passengers, in aircraft evacuations, 96-18.

Neurology

- ... alcohol effects on ataxia test battery, 79-9.
- ... alcohol effects on visual functions, 78-2, 79-15.
- ... brain tolerances to concussion, 71-13, 74-4.
- ... central factor in auditory fatigue, 63-19.
- ... chlordimeform toxicity, 77-19.
- ... conditions associated with aviation safety, 81-3.
- ... drug effects on performance, 64-18.
- ... endrin effects, 63-16, 70-11.
- ... in-flight vertigo and unconsciousness, 63-21.
- ... neuropsychological test battery, 92-11, 95-7.
- ... nucleus rotundus, 77-22.
- ... organophosphate insecticide effects, 63-24, 72-29, 73-3, 73-4, 79-15.
- ... photic stimulation, 66-38.
- ... pupillary movement, 65-9, 65-25.
- ... rheoencephalography in cerebrovascular disease detection, 65-4, 67-11.
- ... seizures in flight, 64-6.
- ... spiral aftereffect test, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
- ... studies at GCRI, 64-1.
- ... vestibular tests, 75-4.

Noise

- ... aircrew personnel effects, 72-32.
- ... auditory fatigue, 63-19, 65-1, 65-2.
- ... birds, effects on, 62-4.
- ... ear-protector ratings, 73-20, 75-11.
- ... intensity in aircraft cockpits, 68-21, 68-25, 95-18.
- ... performance effects of simulated radar task, 79-24, 83-13.
- ... performance impairment, 72-14.
- ... simulated sonic boom effects, 71-29, 72-19, 72-24, 72-35, 73-16, 74-9.
- ... sonic boom startle effects in field study, 73-11.
- ... speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.
- ... temporary threshold shift, 79-16.

Nystagmus

- ... adaptation effects, 66-37, 67-6, 67-7, 67-12, 67-19, 69-20.
- ... alcohol effects, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.
- ... antimoion sickness drug effects, 81-16.
- ... arousal effects, 62-17, 63-29.
- ... caloric habituation, 63-14, 64-14, 65-18, 67-2.
- ... dextroamphetamine and secobarbital effects, 73-17.
- ... habituation to rotation, 63-13, 65-24, 68-2.
- ... illumination effects during angular deceleration, 68-28.

Part III: Subject Index

Subject and Report Number

- ... optokinetic stimulation, 70-2, 70-10, 71-22.
- ... secondary, elicitation by irrigation, 63-3.
- ... sleep deprivation, during, 86-9.
- ... translations of reports, Tech. Pub. #1, 64-16, 65-17, 66-2.
- ... vertical, 68-2.

Orthostatic tolerance

- ... alcohol effects at altitude, 82-3.
- ... and beta blocked hypertensives, 92-19.
- ... physical exertion effects, 82-4.

Oxygen

- ... equipment studies, 79-13, 80-18, 89-10, 92-18, 92-22, 95-17.
- ... flammability of toiletries, 63-27.
- ... need at altitude, 66-28, 97-9.
- ... need for training among civilians, 91-13.
- ... system design, 78-9.

Oxygen masks

- ... crew smoke-protective devices, 76-5, 78-4, 78-14, 78-41, 83-14, 89-8, 89-11.
- ... design for children, 66-9.
- ... disposable, 66-7.
- ... donning time after decompression, 66-10.
- ... evaluation, 62-21, 66-7, 66-20, 67-3, 67-9, 72-10, 78-4, 79-13, 80-18, 83-10, 85-10, 87-5, 89-5, 93-6, 96-4.

Ozone

- ... chronic effects, 80-16.
- ... effects under simulated flight conditions, 79-20, 80-9.
- ... review of effects, 89-13.

Passengers

- ... blind, cane use in emergency evacuation, 80-12.
- ... child restraints, 94-19, 95-30.
- ... cold/wet exposure, 94-10.
- ... emergency evacuation, computer model, 72-30, 78-23, 94-11, 97-20.
 - experimental cabin, 97-18.
- ... emergency evacuation, seating configurations, 89-14.
- ... flow rates between compartments, 78-3.
- ... handicapped emergency evacuation, 77-11, 80-12.
- ... head injury analysis, 92-20.
- ... illness and injuries, cabin safety data bank, 79-23.
- ... injuries during emergency evacuation, 79-6, 79-23.

Subject and Report Number

- ... medical kits, use of, 91-2, 91-3.
- ... neck injury analysis, 93-14.
- ... oxygen masks, 79-13, 80-18, 95-17, 96-4.
- ... ozone effects, 80-9, 89-13.
- ... protective breathing devices, 67-4, 70-20, 83-10, 85-10, 87-2, 87-5, 89-5.
- ... wheel-well stowaways, 96-25.

Patients

- ... air transport with eye injuries, 62-12.
- ... civilian air ambulance services, 71-18, 82-5.
- ... supplemental oxygen from Molecular Sieve oxygen concentrators, 92-22.

Perception

- ... anticollision lights, 66-39, 70-9, 70-15, 71-42.
- ... approach angle in simulated night landings, 81-6, 82-6.
- ... auditory fatigue, 63-19.
- ... binaural beat, 63-17.
- ... Broca-Sulzer phenomenon, 68-27.
- ... color, 67-8, 83-11, 90-9.
- ... depth, 63-10, 63-28, 65-11, 65-32, 67-20.
- ... induced decrements, 93-19.
- ... interaural intensity difference limen, 67-10.
- ... matching loudness to flash brightness, 67-16.
- ... peripheral visual cues, 68-11, 68-12, 68-22.
- ... propeller paint schemes, 78-29.
- ... reaction time, flash luminance and brightness, 67-24.
- ... size and distance, 62-15, 64-13, 66-22, 66-24, 67-18.
- ... spatial extent, 63-20.
- ... spiral aftereffect, 64-9, 64-10, 68-10, 69-15, 71-31.
- ... tactile, 62-11, 62-16.
- ... two-flash thresholds, 68-20, 70-15.
- ... vision through sunscreen materials, 78-28.

Performance (also see: Human factors)

- ... accident experience, physical defects, 76-7, 77-20, 79-19, 81-14, 83-18.
- ... age effects, 95-3, 95-7.
- ... age index for pilots, 77-6, 78-16, 78-27, 83-15, 85-3.
- ... age 60 rule, 94-20, 94-21, 94-22, 94-23.
- ... **air traffic controllers**
 - age effects, 61-1, 62-3, 65-21, 67-1, 71-36, 73-7, 81-12, 84-6.
 - aptitude tests for prediction, 65-19, 68-14, 71-28, 71-36, 71-40, 72-18, 79-3, 84-2, 84-6, 88-3, 89-6, 94-4, 97-15.
 - color perception effects, 83-11, 90-3.

Subject and Report Number

Subject and Report Number

- evaluation, 61-1, 65-22.
- experience as predictor, 63-31.
- flight service station training, 86-6.
- flashing target effects, 90-3.
- incident reporting, 65-10.
- job task taxonomy for en route, 93-1.
- memory in air traffic control, 97-22.
- Multiple Task Performance Battery for selection, 72-5, 74-10.
- pass-fail in FSS training program, 79-18.
- personality factors, relation to, 70-14, 89-7.
- radar simulator, 65-31, 75-8, 77-18, 78-11, 80-15, 80-17, 82-1, 82-16, 83-9, 83-13, 86-4, 88-4, 89-1, 90-3, 95-23.
- sex differences, 72-22.
- situation awareness, 94-27.
- video game experience as a predictor, 97-4.
- ... airworthiness inspectors, 87-4.
- ... alcohol effects, 95-3, 95-7.
- ... antihistamine effects, at altitude, 68-15, 78-19.
 - on performance, 97-25.
- ... attitude indicators (flight instrument), 73-9.
- ... attitude questionnaires to predict under stress, 69-7.
- ... aural glide slope cues for instrument approaches, 71-24.
- ... aviation medical examiners, 84-7.
- ... blink rate measures, 94-17, 94-26, 96-9.
- ... chronic disulfoton poisoning effects, 69-19.
- ... cockpit compact instrument display, 75-12.
- ... cognitive appraisal of stress effects, 68-17.
- ... crash diet effects, 81-8.
- ... decompression effects, 66-10.
- ... dextroamphetamine effects during sleep loss, 75-14.
- ... distractability effects, 72-25.
- ... distracting stimuli effects, 71-7, 72-14.
- ... drug effects during angular acceleration, 73-17, 82-19.
 - in aircraft simulator, 64-18.
 - on complex performance, 69-9, 75-14, 77-17, 78-19, 97-25.
- ... flight instructors and accidents, 96-3.
- ... flight simulation, 96-16, 97-9, 97-24.
- ... forest fire retardant missions, effects of, 68-26.
- ... heart disease and age effects, 64-4.
- ... heat and altitude effects, 71-17.
- ... heat effects on complex performance, 69-10, 72-17.
- ... hypoxia, decrement due to, 66-15, 71-11, 82-10, 83-15, 85-3, 85-5, 97-9.
- ... impairment by alcohol, 66-29, 69-14, 71-20, 71-34, 72-4, 72-11, 72-34, 78-2, 79-7, 79-26,

- 82-3, 83-2, 85-5, 88-2, 94-24, 95-3, 95-7.
- ... instrument flying using peripheral visual cues, 68-11, 68-12, 68-22.
- ... interaction of alcohol and altitude, 88-2.
- ... intercontinental flight effects, 65-16, 65-28, 65-29, 65-30, 68-8, 69-17.
- ... marihuana effects, 73-12, 75-6, 85-8.
- ... measurement, 77-15, 78-33, 78-34, 84-2.
- ... mental task effects on auditory fatigue, 65-1, 65-2.
- ... monotonous task correlates, 73-14, 75-8.
- ... noise effects on simulated radar task, 79-24.
- ... Phosdrin effects, 72-29, 73-3.
- ... physical conditioning program effects, 66-17, 66-21.
- ... physical exercise effects, 82-4, 82-10.
- ... physiological measures on perceptual-motor tasks, 69-8.
- ... pilot tracking during successive approaches, 72-9.
- ... pseudopilots in radar training, 80-5.
- ... readiness to perform, 93-13, 95-24, 97-5.
- ... reliability of individual subjects, 78-37.
- ... rotating shifts, 96-23.
- ... shifts in wake-sleep cycle, effects, 75-10, 76-11.
- ... signal rate effects on monitoring, 69-6, 69-16, 97-10.
- ... simulated autopilot malfunctions, 97-24.
- ... simulated glidepath indicators, 79-4, 79-25, 81-6, 82-6.
- ... situation assessment through re-creation of incidents (SATORI), 93-12, 97-13.
- ... sleep deprivation effects, 70-8, 85-3.
- ... smoking effects, 80-11, 83-4, 97-7.
- ... sonic boom effects, 71-29, 72-19, 74-9.
- ... startle effects, 69-21, 73-11, 73-16, 79-24, 83-13, 88-4.
- ... stress-related decrements, 93-19.
- ... student pilots, 67-15, 69-12.
- ... tasks for operator-skills research, 66-19.
- ... time-sharing ability, 76-1.
- ... tracking and complex performance, 72-21.
- ... tracking, dextroamphetamine, sleep loss, 76-12.
- ... video game experience, on ATC selection tests, 97-4.
- ... visual search with and without radar sweepline, 79-12.
- ... visual taskload effects on CFF change during complex monitoring, 85-13.
- ... visual taskload effects on complex monitoring, 88-1, 90-3, 95-23.
- ... work in heat and cold, 66-23, 68-13.

Part III: Subject Index

Subject and Report Number

Personnel, FAA

- ... airway facilities personnel, job attitudes, 77-21, 79-11, 83-7.
- ... Airway Science Curriculum Demonstration Project, evaluation of, 88-5.
- ... airworthiness inspectors, job performance ratings of, 87-4.
- ... biological rhythms and rotating shift work considerations, 86-2.
- ... correlates of satisfaction with training, 91-9.
- ... decision making, equity, and job satisfaction, 91-10.
- ... effectiveness of management training, 75-9, 78-32, 92-16.
- ... electronics technicians, 97-19.
- ... flight inspection aircrews, crew resource management, 96-24.
- ... flight service station, organizational climate, 97-12.
- ... intent to leave and job satisfaction, 91-15.
- ... identification of management training needs, 90-2, 92-16.
- ... identification with occupation, 92-21.
- ... job task analysis for FAA supervisors, 91-5.
- ... job task taxonomy, en route, 93-1.
- ... maintenance, 89-9, 90-14, 91-16, 92-3, 93-5, 93-15, 94-12, 95-14, 95-31, 96-2.
- ... matrix teams, 93-18.
- ... organizational commitment, 92-21.
- ... organizational support, perceptions of, 92-13.
- ... test fairness for selection, 79-3, 96-13.

Pesticides

- ... aerial application aircraft accidents, 66-27, 66-30, 68-16, 78-31, 80-3.
- ... biochemical effects of lindane and dieldrin, 62-10, 63-4.
- ... chlordimeform toxicity, 77-19.
- ... cholinesterase determination, 67-5.
- ... CNS effects of organophosphates, 63-24, 69-19, 79-15.
- ... comparison of serum cholinesterase methods, 70-13, 72-12.
- ... dieldrin effects on liver, 66-5, 66-26.
- ... endrin effects, 66-11, 66-26, 66-34, 70-11.
- ... endrin, mechanisms of action, 63-16, 63-26.
- ... methamidophos toxicity, 78-26.
- ... organophosphates effects on reproduction, 70-3.
- ... Phosdrin effects on performance, 72-29, 73-3.
- ... Phosdrin effects on vision, 73-4.

Subject and Report Number

- ... storage stability of human blood cholinesterase, 70-4.
- ... symptoms and treatment of poisoning, 62-8.

Physical fitness

- ... age relationship, 63-18.
- ... ATC students, 71-8.
- ... field test for, 63-6.
- ... myocardial infarction, 64-2, 66-17, 66-21.
- ... neuropsychological screening, 92-11.

Physiology

- ... autonomic and performance, 93-19.
- ... backscatter, responses to, 72-8.
- ... blood donation effects, 84-4.
- ... crash diet effects, 81-2, 81-8.
- ... evaporative water loss device, 67-17.
- ... gas pressure in tissue, 63-11.
- ... high altitude training, need for, 91-13.
- ... measures during complex task performance, 69-8, 82-10.
- ... neural control of the ciliary muscle, 63-5.
- ... sleep deprivation responses, 70-8, 75-14.
- ... smoking withdrawal responses, 83-4.
- ... thermal balance, 66-23.
- ... tolerances to heat, 70-22, 71-4.
- ... wheel-well stowaways, 96-25.

Pilots

- ... accident experience, physical defects, 76-7, 77-20, 79-19, 81-14, 83-18.
- ... accident predisposition, 72-2, 73-5.
- ... aerial applicator protection, 66-30, 72-15, 80-3.
- ... age index, 77-6, 78-16, 78-27, 82-18.
- ... age 60 rule, 94-20, 94-21, 94-22, 94-23.
- ... ages of those in aircraft accidents, 67-22, 70-18, 77-10, 94-22.
- ... alcohol effects on performance, 66-29, 72-4, 78-2, 79-7, 79-26, 83-2.
- ... alcoholic airline pilots rehabilitation, 85-12.
- ... altitude tolerance with pulmonary disease, 77-16.
- ... analysis of certification denial actions, 68-9, 74-5, 76-10, 78-25, 80-19, 83-5, 84-9, 85-9, 86-7, 90-5, 90-7.
- ... anticollision observing responses, 73-6.
- ... attitudes toward safety, 95-27.
 - toward safety training, 97-16.
- ... attrition, 72-13, 73-8.
- ... blood donation effects, 84-4.
- ... blood pressure levels, 84-3.
- ... cardiovascular health changes in third-class certificate holders, 72-26.

Subject and Report Number

... cockpit visual problems, 77-2, 77-7, 77-13, 77-14, 78-17.
 ... color vision and signal lights, 71-27, 71-32, 73-18, 75-1, 93-17.
 ... communication, 96-10, 96-20, 96-26.
 ... computer-based flight simulator, 96-15.
 ... computer-based training, 94-25, 95-6, 96-8, 97-11.
 ... control force capabilities of females, 72-27, 73-23.
 ... coronary atherosclerosis in fatal accidents, 80-8, 85-6.
 ... crew resource management, flight inspection aircrew, 96-24.
 ... decision-making training, 87-6, 96-19.
 - "expert" pilot training model, 97-6.
 - use of weather information, 97-3, 97-23.
 ... disease prevalence and incidence, 73-8, 81-9, 84-8, 89-2.
 ... drug effects in aircraft simulator, 64-18.
 ... estimate of active population, 68-5.
 ... exams of first-class certificate holders by senior AMEs, 71-38.
 ... experience in controller selection, 74-8.
 ... fatigue, 81-13.
 ... G effects of aerobatics, 72-28, 82-13.
 ... heart rates during instrument approaches, 70-7, 71-24, 75-12.
 ... heat effects on performance in a flight simulator, 72-17.
 ... judgment training, 87-6.
 ... longevity and survival of retired airline pilots, 95-5.
 ... marijuana in general aviation fatal accidents, 85-8.
 ... medical standards, 71-25, 82-14.
 ... neuropsychological screening, 92-11.
 ... noise effects on hearing, 72-32.
 ... need for flight physiology training, 91-13.
 ... occupations, 69-11, 77-10.
 ... ozone effects, 80-9, 89-13.
 ... performance on glidepath indicator systems, 79-4, 79-25, 81-6, 82-6.
 ... performance with simulated autopilot malfunctions, 97-24.
 ... performance with two attitude indicators, 73-9.
 ... peripheral visual cue response, 68-11, 68-12, 68-22.
 ... physician accidents, 66-25, 71-9.
 ... physiological responses on cross-country flights, 71-23.
 ... physiological studies in air tankers, 68-26.
 ... pulmonary function, 77-3.
 ... risk factors for cardiac events, 90-7.
 ... safety training, evaluation, 97-16.

Subject and Report Number

... satisfaction with ATC services, 90-6.
 ... severe weather flying, 66-41.
 ... shoulder harness, use of, 95-2.
 ... smoking effects on performance, 80-11, 83-4.
 ... status variables with accidents, 70-18.
 ... stress in student pilots, 67-15, 69-12, 76-2.
 ... suicide, 72-2, 73-5.
 ... tracking performance during successive approaches, 72-9.
 ... type airman certificate related to accidents, 67-23.
 ... vertigo, 67-19.
 ... visual acuity, midair collisions, 75-5.
 ... voice communication, 93-20.
 ... workload, 77-15, 81-13.

Pregnancy

... crewmember radiation exposure, 92-2.
 ... emergency air transport, 82-5.
 ... impact injuries, 68-6, 68-24.
 ... organophosphate pesticide effects in rats, 70-3.

Propellers

... paint schemes conspicuity, 78-29.
 ... propeller-to-person accidents, 81-15, 93-2.

Psychology

... accident proneness, 93-9.
 ... automation and pilot performance, 97-24.
 ... Composite Mood Adjective Check List to measure stress effects, 71-14, 71-21, 73-22.
 ... cultural diversity awareness training, 95-10.
 ... expertise method in aeronautical decision making, 97-6.
 ... flight inspection aircraft, preferences, 95-18.
 ... job attitudes, airway facilities personnel, 77-21, 79-11, 83-7.
 ... memory in air traffic control, 97-22.
 ... motivation in aircraft evacuation, 96-18.
 ... organizational factors, 90-2, 91-5, 92-8, 92-9, 92-10, 92-13, 92-17, 92-21, 94-2.
 ... personality assessment, 71-35, 91-8, 93-4.
 ... pilot attitudes toward safety, 95-27.
 ... psychological autopsy, 72-2, 73-5.
 ... safety behaviors on the job, management influence, 97-8.
 ... Shipley Institute of Living Scale with ATCSs, 92-30.
 ... situational awareness, 94-27, 97-13, 97-22.
 ... Sixteen Personality Factors test with ATCSs, 97-17.
 ... stress and anxiety in air traffic controllers, 80-14, 81-5, 89-7.
 ... Type A behavior, 86-4, 94-13.

Part III: Subject Index

Subject and Report Number

... use of PC-based training devices, 94-25, 95-6, 96-8, 96-15, 96-16, 97-11.

Pulmonary

... disease, altitude tolerance, 77-16.
... function testing, 64-1, 71-8, 77-3.
... glyceryl trinitrate, vascular effects of, 64-11.
... hyperpyrexia, responses to, 64-8.
... ozone effects on function, 79-20, 80-9, 89-13.
... protection from smoke, fire, 67-4, 78-4, 83-10, 83-14, 85-10.
... thromboembolism, 64-7.

Radiation

... calibration of Concorde detection instrument, 71-26.
... cosmic and air carrier crewmembers, 92-2.
... measurements at SST altitudes, 71-26, 80-2.
... RBE of fast neutrons, 78-8.
... transport limits for radioactive material, 82-12.

Renal function

... acute arterial occlusion effects, 63-22, 65-27.
... autoregulation mechanism, 63-32.
... insecticide effects, 63-26.
... venous pressure effects, increase of, 62-18, 63-1.

Research, aeromedical

... aging studies at GCRI, 64-1.
... aims and accomplishments, 62-20, 67-25.
... alcohol effects review, low dose, 94-24.
... ballistocardiography, 64-12, 65-8, 65-15.
... bibliography of acceleration studies, 63-30.
... bibliography of shift work research, 83-17.
... emergency evacuation, 65-7.
... history, CAMI (preface), 87-1, 97-1.
... index of international publications, 93-3.
... index of OAM reports, 63-2, 64-20, 66-1, 68-1, 70-1, 72-1, 74-1, 77-1, 79-1, 81-1, 83-1, 87-1, 90-1, 92-1, 94-1, 96-1, 97-1.
... needs, 63-35, 71-10.
... plans, for NAS operator selection, 97-19.
... quinine elimination, 94-16.
... translated material, Tech. Pub. #1, 64-16, 65-17, 66-2, 68-7, 71-5, 76-4, 81-4.

Restraint

... acceptance of upper torso restraint, 71-12.
... bibliography, 63-30.
... center of gravity, 62-14, 65-23, 69-22.
... child, 94-19, 95-30.
... cockpit delethalization, 66-3, 71-3, 72-6, 81-10.

Subject and Report Number

... comparison of systems, 67-13, 69-3, 69-4, 69-5, 69-13.
... effectiveness in agricultural aircraft accidents, 72-15, 80-3.
... evaluation, 78-6, 78-24, 79-17.
... head impacts while wearing, 72-6.
... infant and child systems, 78-12.
... kinematics with seatbelt restraint, 62-13, 92-20.
... lapbelt effects on pregnant female, 68-24.
... shoulder harness benefits, 72-3, 82-7, 83-8.
... shoulder harness design, 65-14.
... upper body restraint installation, 66-33.

Rheoencephalography

... cerebrovascular disease detection, 65-4, 67-11.

Seat

... child and infant seat evaluation, 78-12, 94-19, 95-30.
... comfort, 62-1.
... cushion flotation, 66-13, 95-20.
... energy-absorbing, 83-3, 90-11.
... evaluation, 78-6, 78-24, 79-17, 80-3, 81-10, 82-7, 83-3.
... fire-blocking materials toxicity, 86-1.
... injury potential, 66-18, 71-3, 72-15, 82-7, 83-8, 89-3.
... pitch and evacuation, 92-27.
... placement and Type III exits, 95-22.
... pressure distribution, 62-1.
... rearward-facing, injuries, 62-7, 69-13.
... side-facing, impact injuries, 69-13.

Seatbelts

... center of gravity in design, 62-14, 65-23.
... cockpit delethalization, 66-3, 71-3.
... evaluation of different systems, 67-13, 69-3, 69-13.
... impact injuries due to, 69-5.
... impact injuries to pregnant females, 68-24.
... kinematics of restrained subjects, 62-13.

Shiftwork and shift rotations

... attitudes of ATCS's, 73-2.
... bibliography of shift work research, 83-17.
... 8- vs. 10-hour work schedules, 95-32.
... 5-day and 2-2-1 pattern, 73-22, 75-7, 95-12, 95-19, 96-23.
... performance effects, shifts and antihistamines, 97-25.
... review, 86-2.
... sleep in air traffic controllers, 77-5, 95-12, 95-19.
... steady and 2-2-1 shifts, 85-2.

Subject and Report Number

Subject and Report Number

- ... symptoms reported for ATCSs, 65-5, 65-6.
- ... translations of reports, 81-4.

Shoulder harness

- ... acceptance tests, 71-12.
- ... angle of shoulder slope in design, 65-14.
- ... benefits, 72-3, 82-7, 83-8.
- ... cockpit delethalization, 66-3, 72-6, 81-10.
- ... comparison of types, 67-13, 69-3, 69-4, 69-5.
- ... effectiveness in agricultural aircraft accidents, 72-15, 80-3.
- ... failures, 81-10.
- ... head impacts while wearing, 72-6.
- ... installation in general aviation aircraft, 66-33.
- ... use of, 95-2.

Sickle cell trait

- ... aeromedical significance, 76-15, 80-20.
- ... research protocol, 78-30.

Simulation

- ... air traffic controller radar task, 65-31, 75-8, 77-18, 78-11, 79-12, 79-24, 80-15, 81-12, 82-1, 82-16, 83-9, 83-13, 90-3, 94-17, 94-26, 96-9.
- ... air traffic controller color perception and job performance, 83-11, 90-9, 92-6.
- ... aircraft passenger emergency evacuation, 72-30, 77-11, 78-23, 96-18, 97-18.
- ... autopilot malfunctions and pilot responses, 97-24.
- ... aviation stress protocol, 78-5.
- ... flight, PC-based, 96-15, 96-16.
- ... - and performance, 97-9.
- ... +Gz, 79-8.
- ... movement of objects in depth, 65-32.
- ... night approaches to landing, 77-12, 78-15, 79-4, 81-6, 82-6.
- ... operator skills research, 66-19.
- ... pilot workload, 77-15, 82-10, 83-15.
- ... sonic booms, 71-29, 72-19, 72-24, 72-35, 73-16.
- ... stress in ground trainer use, 76-2.
- ... transfer of training, 69-24.
- ... visual glidepath indicator systems, 79-4, 79-25, 81-6, 82-6.

Skin

- ... conductance with sonic booms, 71-29.
- ... evaporative water loss, 63-25.
- ... flammability of toiletries, 63-27.
- ... galvanic skin response, 64-18.
- ... tactile communication, 62-11, 62-16.
- ... temperature to predict tolerances to heat and cold, 71-4.

Sleep

- ... air traffic controllers, 77-5, 95-12, 95-19.
- ... deprivation, 70-8, 85-3.
- ... dextroamphetamine effects during sleep loss, 75-14.
- ... loss and performance, 93-19.
- ... loss effects on vestibular response, 86-9.
- ... shift work effects in sleep-wake cycle, 75-10, 76-11.
- ... sonic boom effects, 72-19, 72-24, 72-35.
- ... work schedule effects, 95-32

Smoke

- ... air carrier accidents, 62-9, 65-7, 70-16.
- ... crew protective devices, 76-5, 78-4, 78-14, 78-41, 83-14, 89-8, 89-11.
- ... emergency signs, effects on reading, 79-22, 80-13, 81-7.
- ... passenger protective breathing devices, 67-4, 70-20, 83-10, 85-10, 87-2, 87-5, 89-5, 89-12.
- ... toxicity, 95-8.
- ... toxicity of thermal degradation products of engine oils, 83-12.

Smoking

- ... aviation safety, effects on, 80-11, 97-7.
- ... smoking/withdrawal effects, 83-4.

Sonic booms

- ... autonomic responses, 71-29, 72-35, 73-16, 74-9.
- ... sleep, effects during, 72-19, 72-24, 72-35.
- ... startle effects, 73-11, 73-16, 74-9.
- ... tracking performance effects, 71-29.

Stalls

- ... warning device, 66-31.

Standards

- ... advanced aerospace systems, 71-33.
- ... aeromedical, 71-25, 71-33, 82-14.
- ... color vision for air traffic controllers, 83-11, 90-9.
- ... neurological and neurosurgical conditions, 81-3.

Stress

- ... assessment with State-Trait Anxiety Inventory, 72-23, 81-5, 91-8.
- ... aviation stress protocol—simulation, 78-5.
- ... Composite Mood Adjective Check List to measure, 71-14, 71-21.
- ... evaporative water loss device, 67-17.
- ... flight inspection crews, 81-13.
- ... +Gz, 79-8.

Part III: Subject Index

Subject and Report Number

- ... heart rate and performance effects, 68-17, 69-21.
- ... heart rates during instrument approaches, 70-7, 71-24, 75-12.
- ... in air tanker pilots, 68-26.
- ... in air traffic controllers, 71-2, 71-21, 73-15, 73-21, 73-22, 74-11, 75-7, 76-13, 77-23, 78-5, 78-18, 78-40, 80-14, 82-17.
- ... job and burnout, 92-7.
- ... measurement of evaporative water loss, 63-25.
- ... monotony with automation as a stressor, 80-1.
- ... performance prediction by attitudes, 69-7.
- ... performance under auditory distraction, 72-14.
- ... physiological responses on cross-country flights, 71-23.
- ... plasma catecholamine determination, 66-6, 71-15.
- ... severe weather flying, 66-41.
- ... situational in accident causation, 72-2, 73-5.
- ... student pilots, 67-15, 69-12, 76-2.
- ... symptoms reported by air traffic controllers, 65-5, 65-6.
- ... urinary metabolites, 78-18, 78-40, 85-2.
- ... wake-sleep cycle shifts, 75-10, 76-11.

Suicide

- ... aircraft accident cause, 72-2, 73-5.

Supersonic transport

- ... anticollision lights, 70-9, 70-15, 71-42.
- ... decompression profiles, 70-12.
- ... evacuation tests, 70-19.
- ... radiation at SST altitudes, 71-26, 80-2.
- ... sonic boom effects, 71-29, 72-19, 72-24, 72-35, 73-11, 73-16, 74-9.

Temperature

- ... cold effects on shipped dogs, 87-2.
- ... changes in cold water with prototype life perserver, 85-11.
- ... complex performance effects, 69-10, 71-17, 72-17.
- ... evaporative water loss, 63-25, 67-17.
- ... heat effects on shipped dogs, 77-8, 81-11, 84-5, 87-8.
- ... heat tolerance limits of rats and mice, 86-8.
- ... human tolerance, 62-6, 70-22.
- ... hyperpyrexia, 64-8.
- ... liver damage effects by dieldrin, 66-5.
- ... maintenance of thermal balance, 66-23.
- ... manual performance effects, 68-13.
- ... tranquilizer effects on body temperature, 63-23, 66-14.

Subject and Report Number

Tests

- ... air traffic controller selection, 61-1, 62-2, 65-19, 65-21, 68-14, 71-28, 71-36, 72-5, 72-18, 74-10, 77-25, 78-7, 79-3, 79-14, 79-21, 80-7, 82-11, 84-2, 84-6, 90-4, 90-8, 90-13, 91-9, 94-4, 94-9, 96-13, 97-4, 97-15.
- ... alcohol abuse, 83-2.
- ... aptitude measures of military ATCS trainees, 71-40.
- ... aptitude measures of female ATCS trainees, 72-22.
- ... ataxia, alcohol effects, 79-9.
- ... ballistocardiography, 64-12, 65-8, 65-15.
- ... cholinesterase activity, 67-5.
- ... color vision, 67-8, 71-27, 71-32, 73-18, 75-1, 83-11, 85-7, 90-9, 92-29, 93-16, 93-17, 95-13.
- ... complex human performance, 69-6, 69-16, 72-5, 72-21.
- ... Composite Mood Adjective Check List, 71-14, 71-21, 73-22.
- ... correlation with experience in ATCS selection, 63-31.
- ... directional headings, 72-18, 90-8.
- ... distraction susceptibility, 71-7.
- ... emergency evacuation, 65-7, 66-42, 70-19, 70-20, 77-11, 78-3, 79-5, 89-5, 89-14, 92-27, 95-22, 95-25.
- ... energy-absorbing seat effectiveness, 83-3, 90-11.
- ... fairness, 79-3, 96-13.
- ... flight service station training, 79-18, 86-6.
- ... neuropsychological battery, 92-11.
- ... performance, 66-19, 97-5.
- ... performance after decompression, 66-10.
- ... performance, age and disease, 64-4.
- ... performance and age, 65-21, 71-36, 81-12.
- ... performance and personality factors, 70-14.
- ... performance with hypoxia, 66-15, 71-11, 82-10, 83-15.
- ... personality assessment, 71-35, 93-4.
- ... physical fitness, 63-6, 63-18, 63-33, 64-3, 66-17.
- ... pupillary movement, 65-9, 65-25.
- ... readiness to perform, 93-13, 95-24.
- ... scanning and monitoring, 92-12, 94-8.
- ... Shipley Institute of Living Scale, 92-30.
- ... Sixteen Personality Factors test, with ATCSs, 97-17.
- ... spiral aftereffect, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
- ... stain for dieldrin and endrin, 66-26.
- ... State Trait Anxiety Inventory, 72-23, 76-13, 80-14, 81-5, 89-7, 91-8.

Subject and Report Number

- ... Stroop test, 71-7, 72-14.
- ... supervisory, air traffic control, 92-16.
- ... system for combustion toxicology, 77-9.
- ... vestibular during physical exams, 75-4.
- ... video game experience, 97-4.

Thorax

- ... effective mass determination, 96-7.

Tobacco

- ... effects on aviation safety, 80-11, 83-4.

Tolerance

- ... brain, to concussion, 71-13, 74-4.
- ... cold stress in dogs, 87-8.
- ... decompression for SST, 70-12.
- ... face, to impact, 65-20, 66-12, 66-40.
- ... flight stresses, 62-6, 81-2.
- ... free-fall impacts, 63-15.
- ... heat for rats and mice, 86-8.
- ... heat stress in dogs, 77-8, 81-11, 84-5, 87-8.
- ... hot environments, 70-22.
- ... hypoxia, propranolol effects, 79-10, 80-10.
- ... impacts in water, 65-12, 68-19.
- ... intercontinental flights, 65-16, 65-28, 65-29, 65-30.
- ... orthostatic, 63-34, 82-3, 82-4., 92-19.
- ... +Gz, 79-8, 81-2.
- ... prediction for thermal environments, 71-4.
- ... vertical impact, 62-19.
- ... work at altitudes, 82-3.

Toxicology

- ... carbon monoxide, 89-4, 93-7, 94-7, 94-18.
- ... combustion products of cabin materials, 77-9, 85-5, 86-1, 86-3, 86-5, 89-4, 90-15, 90-16, 91-17, 93-7, 93-8.
- ... fatal aircraft accident findings, 78-31, 80-11, 82-15, 92-23, 92-24, 94-14, 97-14.
- ... hydrogen cyanide, 93-8, 94-7, 94-18.
- ... metabolites, 95-26, 97-14.
- ... methodology, single extraction urine screening, 96-17.
- ... ozone toxicity, 80-16, 89-13.
- ... thermal degradation of engine oils, 83-12.
- ... time to incapacitation, 89-4, 93-7, 93-8, 94-7.

Training

- ... air traffic controllers, 78-10, 79-3, 79-18, 80-5, 80-15, 82-2, 83-9, 84-6, 88-3, 89-6, 89-7, 91-9, 91-18, 94-8, 95-16, 97-15.
- ... aviation medical examiners, 84-7.
- ... biographical factors in ATCS success, 83-6, 84-6.

Subject and Report Number

- ... correlates of satisfaction with, 91-9.
- ... crew resource management, flight inspector aircrew, 96-24.
- ... devices, 96-6.
- ... disorientation familiarization, 70-17, 77-24.
- ... diversity awareness, 95-10.
- ... flight, PC-based training, 94-25, 95-6, 97-11.
- ... flight instructors, 96-3.
- ... flight physiology, need for, 91-13.
- ... flight service station, 86-6, 91-4.
- ... judgment training for pilots, 87-6.
- ... maintenance personnel, 91-16, 93-5, 95-14, 95-31, 96-2.
- ... management training, effectiveness of, 75-9, 78-32.
- ... needs for managers, 90-2.
- ... personality factor in ATC, 93-4.
- ... physiological, 10-year chamber experience, 77-4.
- ... reception of distorted speech, 73-13.
- ... resource management, controller/crew, 95-21.
- ... safety seminars for pilots, evaluation, 97-16.
- ... situation awareness, 94-27.
- ... stress in pilot training, 67-15, 69-12, 76-2.
- ... supervisory, air traffic control, 92-16.
- ... test fairness, 79-3, 96-8.
- ... tracking performance during successive approaches, 72-9.
- ... transfer from simulation, 69-24, 94-25, 95-6.

Translations

- ... aviation medicine, general, 64-16, 65-17, 66-2, 68-7, 71-5, 72-16, 73-19, 76-4, 81-4.
- ... color vision tests, 67-8.
- ... nystagmus and vestibular function, Tech. Pub. #1, 1963.

Turbulence

- ... effects of severe weather flying, 66-41.
- ... injuries, cabin safety data bank, 79-23, 82-8.

Vertigo

- ... Coriolis stimulation, 67-19.
- ... flicker, 66-39.
- ... illumination during angular deceleration, 68-28.
- ... in-flight case with unconsciousness, 63-21.
- ... production by spiral aftereffect, 64-9, 64-10, 64-17.

Vestibular function

- ... adaptation, 66-37, 67-6, 67-7, 67-12, 67-19, 69-20, 74-3.
- ... alcohol effects, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34, 79-9.

Part III: Subject Index

Subject and Report Number

... arousal effects, 62-17, 63-29.
... caloric habituation, 63-14, 64-14, 65-18, 67-2.
... dextroamphetamine and secobarbital effects, 73-17.
... habituation to rotation, 63-13, 65-24, 68-2.
... motion sickness susceptibility, 76-14.
... rotation device, 64-15.
... secondary, tertiary, and inverted primary nystagmus, 63-3.
... sleep loss effects, 86-9.
... tests during physical examinations, 75-4.
... translation of reports, Tech. Pub. #1, 64-16, 65-17, 66-2, 72-16, 73-19.

Vibration

... bibliography, 63-30.

Video games

... experience and air traffic scenario test score, 97-4.

Vigilance

... blink rate and fatigue, 94-17, 94-26, 96-9.
... hypoxia effects, 71-11.
... simulated ATC tasks, 77-18, 78-11, 80-17, 94-6, 94-26, 95-23.

Vision

... acuity, pilots in midair collisions, 75-5.
... age and binocular fusion time, 66-35.
... alcohol effects, 78-2, 79-15.
... anticollision lights, 66-39, 70-9, 70-15, 71-42, 72-8.
... aphakia, accident risk assessment, 95-11.
... aphakia, incidence in airmen, 91-14, 92-14, 93-11.
... artificial lens implants, 92-14, 93-11.
... atropine and Phosdrin effects, 73-4.
... bifocal effects on radar monitoring, 82-16.
... Broca-Sulzer phenomenon, 68-27.
... chart readability, 77-13, 78-17.
... color, diagnostic tests, 67-8, 71-27, 71-32, 73-18, 75-1, 93-16, 93-17, 95-13.
... color perception and ATCS job performance, 83-11, 85-7, 90-3, 92-6, 92-28, 92-29.
... contact lenses in certification, 90-10.
... cues for approach and landing, 79-4, 79-25, 81-6, 82-6.
... deficiencies in accident airmen, 81-14, 83-18, 93-11.
... disorientation, 69-23, 70-2.

Subject and Report Number

... drug and pesticide effects on visual reflexes, 79-15.
... fatigue effects on binocular fusion time, 69-1.
... fixation effects on nystagmus, 67-12.
... glare, 94-15.
... glaucoma, visual field and altitude, 91-1.
... illusions, 70-2, 71-22, 77-12, 78-15.
... instrument readability by senior pilots, 77-2, 77-7.
... light adaptation device, 66-38.
... matching flash loudness and brightness, 67-16.
... monitoring performance on simulated radar task, 80-17, 81-12, 82-16, 90-3, 94-17, 94-26, 96-9.
... occupational vision, 96-12, 96-27.
... ophthalmic lenses for air traffic controllers, 96-12, 96-27.
... perception of depth, 63-10, 63-28, 67-20.
... perception of size and distance, 62-15, 64-13, 65-11, 66-22, 66-24, 67-18.
... perception of spatial extent, 63-20.
... peripheral visual cues, 68-11, 68-12, 68-22.
... presbyopic individuals, 77-14.
... propeller paint schemes conspicuity, 78-29.
... reaction time, flash luminance and brightness, 67-24.
... readability of emergency signs in smoke, 79-22, 80-13, 81-7.
... search performance with radar sweepline, 79-12.
... smoke-protective goggles, 76-5, 78-41, 83-14.
... spiral aftereffect, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
... stimulation during angular deceleration, 68-28.
... sunscreen materials effects, 78-28.
... test for monitoring and scanning, 92-12, 94-8.
... two-flash thresholds, 68-20, 70-15, 71-42.
... X-Chrom lens to improve color vision, 78-22.

Warning signals

... blink amplitudes and attention, 97-10.
... color and flashing radar targets, 90-3.

Water survival

... flotation, use of seat cushion, 95-20
... life preserver evaluation, 85-11.

Weight

... accident rate relation to body weight, 70-18.
... ATCS population, changes in, 71-19, 72-20.
... errors in stated estimates, 73-10.
... third-class certificate holders, changes in, 72-26.

Subject and Report Number

Subject and Report Number

Work

... age effects on tolerance, 63-33.
 ... alcohol effects, 82-3.
 ... altitude effects on tolerance, 63-33, 82-3.
 ... anxiety relation to workload in ATCS's, 73-15, 77-23, 80-14, 81-5.
 ... blood pressure effects, 66-36.
 ... capacity after myocardial infarction, 64-2, 66-17, 66-21.
 ... capacity of ATCS students, 71-8.
 ... capacity related to age, 63-18.
 ... capacity with step test, 64-3.
 ... distractibility with monotony, 72-25.
 ... drug effects on performance, 63-12, 63-34.
 ... energy cost on treadmill, 62-5.
 ... fitness, field test for, 63-6.
 ... human tolerance, 62-6.

... measurement of pilot workload, 77-15, 81-13.
 ... monotonous task performance correlates, 73-14.
 ... motivation of ATCS, 73-2.
 ... organizational climate, FSS, 97-12.
 ... passenger workload and protective breathing requirements, 87-2.
 ... safety climate, 97-8.
 ... shift rotation effects, 65-5, 65-6, 81-4, 82-17, 83-17, 85-2, 86-2.
 ... shift work and performance, 97-25.
 ... sickle cell trait effects, 80-20.
 ... strength and endurance of female pilots, 72-27, 73-23.
 ... strength of flight attendants, 75-13.
 ... thermal balance in heat and cold, 66-23, 68-13.
 ... workload effects on complex performance, 83-15.